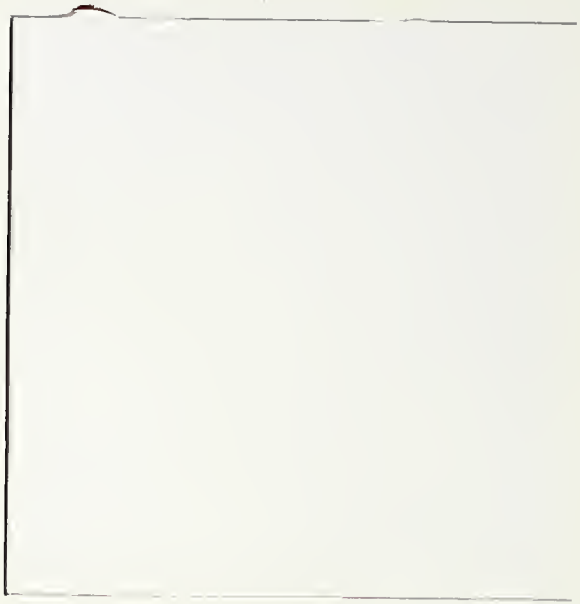
TAYLOR UNIVERSITY CATALOG 1988–1990

A Christian Liberal Arts College



All correspondence should be addressed to:

Taylor University, Upland, Indiana 46989
The University telephone number is (317) 998-2751

Information in this catalog, while current at time of printing, is subject to changes based on enrollment, faculty availability, and other considerations.

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UPLAND

INFORMATION DIRECTORY

The President of the University administers the total program of the institution and will receive inquiries on pertinent matters. In addition, the administration, faculty, and staff of Taylor University are available to assist with questions relevant to particular areas of responsibility.

You are invited to address your inquiries on the following subjects to the offices indicated below.

Academic Information: academic grievances, calendar, curriculum, faculty, and scheduling of classes—Vice President for Academic Affairs or Associate Vice President for Academic Affairs

Admissions: applications, campus visits, catalogs, and descriptive literature—Dean of Admissions

Alumni Affairs: Taylor clubs, alumni publications, homecoming activities—Associate Vice President for Alumni and Institutional Relations

Business Matters: fees, insurance, payment procedures—Controller and Chief Financial Officer

Counseling: Counseling services of various types exist on the campus. Inquiries should be directed to the Associate Vice President for Student Development/Dean of Students who will make the proper referral

Advancement: bequests, estate planning, fund raising, public relations, university publications—Vice President for University Advancement

Records and Transcripts: academic petitions, grade reports, faculty advising, transcripts, transfer credit—Registrar

Religious Life: chapel, convocations, gospel teams, spiritual emphasis, Taylor World Outreach—Associate Dean of Students and University Chaplain

Student Life: activities, clubs, counseling, housing, orientation, leadership opportunities and career development—Associate Vice President for Student Development and Dean of Students

Summer Sessions: summer classes, workshops, field station programs—Associate Vice President for Academic Affairs

Continuing Education: Elderhostel, evening and enrichment programs—Director of Continuing Education

Summer Conferences: Retreats, band camps, conferences, meetings—Associate Vice President for University Advancement

Jay L. Kesler
President

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TAYLOR POLICY OF NONDISCRIMINATION: Taylor University complies with all federal and state nondiscrimination laws. Taylor University is an equal opportunity institution. Direct inquiries to the Office of the President, Taylor University, Upland, IN 46989, 317-998-5203, or the Office of Civil Rights, D.H.E.W., Washington, DC.

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COLLEGE CALENDAR 1988–89 ACADEMIC YEAR

FALL TERM 1988

August 31-Sept. 2, Wednesday-Friday	Colleagues' College
September 2-5, Friday-Monday	New Student Orientation
September 6, Tuesday, 8:00 a.m.	Classes Begin
September 12-16, Monday-Friday	Spiritual Renewal Week
September 30, Friday	Campus Visitation Day
October 7-9, Friday-Sunday	Parents' Weekend
October 21-23, Friday-Sunday	Homecoming Weekend
October 26, Wednesday	Mid-Term Grades Due
October 28, Friday	Campus Visitation Day
October 31-November 4, Monday-Friday	World Opportunities Week
November 23, Wednesday, 12:00 noon	Thanksgiving Holiday
November 28, Monday, 12:00 noon	Classes Resume
December 12-15, Monday-Thursday	Evaluation Week

INTERTERM, 1989

January 3, Tuesday, 8:00 a.m.	Interterm Begins
January 26, Thursday, 5:00 p.m.	Interterm Ends

SPRING TERM, 1989

January 31, Tuesday, 8:00 a.m.	Classes Begin
February 6-10, Monday-Friday	Spiritual Renewal Week
March 6-10, Monday-Friday	Marriage and Family Week
March 10, Friday	Mid-Term Grades Due
	Spring Vacation*
March 31, Friday	Campus Visitation Day
April 22-24, Friday-Sunday	Youth Conference
April 28, Friday	Campus Visitation Day
May 15-18, Monday-Thursday	Evaluation Week
May 20, Saturday, 9:30 a.m.	Baccalaureate
2:00 p.m.	Commencement

*Spring Break dates to be determined

SUMMER SESSION I, 1989

May 23-June 16	Summer Session I
May23, Tuesday, 8:00 a.m.	Classes Begin
May 29, Monday	Memorial Holiday
June 3, Saturday	Classes Meet
June 9-10, Friday-Saturday	New Student Orientation/Fall Registration
June 16, Friday, 5:00 p.m.	Classes End

SUMMER SESSION II, 1989

June 19–July 21	Summer Session II
June 19, Monday, 8:00 a.m.	Classes Begin
July 7-8, Friday-Saturday	New Student Orientation/Fall Registration
July 21, Friday, 5:00 p.m.	Summer Session Ends

COLLEGE CALENDAR 1989/90 ACADEMIC YEAR

FALL TERM, 1989

August 30-Sept. 1, Wednesday-Friday	Colleagues' College
September 1-4	New Student Orientation
September 5, Tuesday	Classes Begin, 8:00 a.m.
September 11-15, Monday-Friday	Spiritual Renewal Week
September 29, Friday	Campus Visitation Day
October 13–15, Friday–Sunday	Parents' Weekend
October 27–29, Friday–Sunday	Homecoming Weekend
October 27, Friday	Mid-Term Grades Due
October 27, Friday	Campus Visitation Day
October 30-November 3, Monday-Friday	World Opportunities Week
November 22, Wednesday, 12:00 Noon	Thanksgiving Holiday
November 27, Monday, 12:00 Noon	Classes Resume
December 11-14, Monday-Thursday	Evaluation Week

INTERTERM 1990

January 3, Wednesday, 8:00 a.m.	Interterm Begins
January 26, Friday, 5:00 p.m.	Interterm Ends

SPRING TERM 1990

January 30, Monday, 8:00 a.m.	Classes Begin
February 5-9, Monday-Friday	Spiritual Renewal Week
March 9-11, Friday-Sunday	Marriage and Family Week
March 16, Friday-Sunday	Mid-Term Grades Due
	Spring Vacation*
March 30, Friday	Campus Visitation Day
April 6-8, Friday-Sunday	Youth Conference
May 14-17, Monday-Thursday	Evaluation Week
May 19, Saturday, 9:30 a.m.	Baccalaureate
2:00 p.m.	Commencement

*Spring Break dates to be determined

SUMMER SESSION I, 1990

May 23–June 15	Summer Session I
May 23, Wednesday, 8:00 a.m.	Classes Begin
June 8–9, Friday–Saturday	New Student Orientation/Fall Registration
June 15, Friday, 5:00 p.m.	Classes End

SUMMER SESSION II, 1990

June 18–July 20	Summer Session II
June 18, Wednesday, 8:00 a.m.	Classes Begin
July 13–14, Friday–Saturday	New Student Orientation/Fall Registration
July 20, Friday, 5:00 p.m.	Classes End

TAYLOR UNIVERSITY

A CHRISTIAN LIBERAL ARTS COLLEGE

Taylor University, an evangelical, independent, interdenominational Christian liberal arts college, is characterized by a warm, contagiously spiritual atmosphere. The Taylor University student body of approximately 1,500 is divided almost equally between men and women who come from 41 states and 34 foreign countries.

Taylor is distinctive in its commitment to both spiritual and intellectual development as symbolized by the twin spires of the Rice Bell Tower named for Garrett Rice. The lovely strains of the Carillon Bells, given in honor of Barbara Gentile, remind the campus community of its dual mission throughout the day.

In addition, the University promotes an atmosphere of uncommon quality which inspires students to participate in endeavors that will produce growth in intellectual ability, spiritual depth, social skills and leadership attributes. Thus, academic pursuits at Taylor are intense and demand imagination, dedication and integrity from both students and faculty.

As a Christian institution, Taylor University has concerned, competent faculty who recognize that all truth has its source in God. The students' quest for truth begins with this conviction and relates to all aspects of the liberal arts curriculum.

The campus property of Taylor University consists of approximately 250 acres, located on the south side of the town of Upland, Indiana. The main campus is developed on 170 acres and contains major campus buildings and the recreational and athletic fields. An additional 80 acres adjacent to the main campus is utilized for the headquarters of the service facilities and for future campus development. Twelve major buildings have been added to the campus since 1965. Major remodeling of two additional buildings was accomplished during 1972; the Helena Building, remodeled in 1987, serves as the campus welcome center and the beautiful Zondervan Library, located at the center of campus, is the focal point of Taylor.

HISTORICAL SETTING

Taylor University is one of the oldest Christian colleges in America. Since its establishment in 1846, the college has remained faithful to its Christian and academic mission. Taylor began in Fort Wayne, Indiana as Fort Wayne Female College. Later, the school became coeducational (1855), merged with the Fort Wayne College of Medicine to become Taylor University (1890), and moved from Fort Wayne to Upland (1893).

The name, Taylor University, embodies the distinctives of the college because Bishop William Taylor, for whom the institution was named, was a remarkably energetic missionary evangelist who was a world Christian pos-

sessed of unusual vitality of commitment and devotion. His voluminous writings (he authored many books on preaching and missions) and extensive world-wide missionary endeavors resulted in his being the first lay pastor to be named a Bishop of the Methodist Church.

THE MISSION OF TAYLOR UNIVERSITY

Taylor University is an interdenominational evangelical Christian undergraduate institution educating men and women for lifelong learning and for ministering the redemptive love of Jesus Christ to a world in need. As a community of Christian students under the guidance of a faculty committed to the Lordship of Jesus Christ, Taylor University offers liberal arts and professional training based upon the conviction that all truth has its source in God.

CHRISTIAN ORIENTATION

Taylor University is firmly committed to evangelical Christianity. To assure the central place of Christian principles in the philosophy and life of the university, we, the trustees, administration, and faculty believe that 1) God is the ultimate Creator and Sustainer of all things in heaven and on earth; 2) the Holy Bible is the inspired, authoritative written word of God, progressively revealing God's will for mankind who, though created by God in His image, rebelled and needs redemption; 3) Jesus Christ is the Living Word of God, who made known God's plan for redemption in His virgin birth, sinless life, atoning death, bodily resurrection, and ascension; and who will return in power and glory; 4) the Holy Spirit is God present in the life of the believer, testifying to the Lordship of Christ and enabling the believer to live a Godly life; 5) the Church is the community of believers who express their unity in Christ by their love for Him, for each other, and for all mankind.

ACADEMIC ORIENTATION

Taylor University has these academic objectives:

To involve students in liberating learning experiences fused with a vitally Christian interpretation of truth and life;

To require demonstrated depth of learning in an academic major;

To anchor specific career preparation for a variety of professions on a foundation of appropriate academic experiences, cultural breadth, and Christian perspectives;

To prepare students to become certified elementary and secondary school teachers;

To provide pre-professional preparation in ministry, engineering, business, law, medicine, nursing, and medical technology;

To establish foundations for graduate study;

To prepare students for conscientious and creative technological leadership;

To create specific experiences wherein the integrative focus of a liberal education is clarified, personalized, and applied;

To build maximum program effectiveness by consistent study and improvement of curriculum, instruction, and faculty-student relationships;

To foster the capacity for making sensitive, value-oriented judgments

To engage in and encourage research in selected areas;

To share intellectual expertise with the larger geographical, scholarly, and faith communities;

To structure general education within which is disseminated the liberal arts heritage.

ACCREDITATION AND MEMBERSHIPS

Taylor University is accredited by the North Central Association of Colleges and Secondary Schools, the Indiana Department of Education, the National Council for Accreditation of Teacher Education, the National Association of Schools of Music, the Council on Social Work Education, and the Association for Continuing Higher Education.

Memberships include the American Council on Education, National Association of Independent Colleges and Universities, Council of Independent Colleges, Independent Colleges and Universities of Indiana, American Association of University Women, Evangelical Council for Financial Accountability, National Association of College Auxiliary Sevices, Indiana Commission on Higher Education, National Association of Student Financial Aid, National Association of College and University Business Officers, Association of Governing Boards of Universities and Colleges, Associated Colleges of Indiana, Cincinnati Council on World Affairs, American Association of Colleges for Teacher Education, Indiana Consortium of International Programs.

CHRISTIAN COLLEGE CONSORTIUM

One of the significant relationships of Taylor is the membership it maintains in the Christian College Consortium. This organization, which includes thirteen Christian liberal arts colleges with programs similar to Taylor's, exists to provide a variety of professional and academic experiences for faculty and students. Of special interest to students are the visiting students' options on the other campuses and cooperative overseas programs. Inquiries about Consortium programs may be addressed to the Office of Academic Affairs.

CHRISTIAN COLLEGE COALITION

Taylor University is also one of seventy-seven members in the Christian College Coalition, a Washington, D.C.-based organization which was founded in 1976. The Coalition exists to provide member colleges programs and contacts to enhance the integration of faith and learning. The Coalition sponsors The American Studies Program and The Latin American Studies Program.

AMERICAN STUDIES PROGRAM

Students benefit directly through participation in the Washington-based American Studies Program, serving as interns and participating in an academic seminar program. Students also live in community with Christians from different geographical regions and denominational backgrounds.

The program is designed for juniors and seniors with a wide range of academic majors and vocational interests.

Students are involved in the American Studies Program for periods of three or four months. The internship seminar opportunity is available September through May, with a special concentrated study period during the January interterm. Summer internships are also available.

Because of its unique location in the nation's capital, this "Washington campus" for the Coalition colleges is viewed as one way of challenging students to consider the meaning of proclaiming the Lordship of Jesus Christ in all areas of life, including career choices, public policy issues and personal relationships.

Additional information is available through the Office of Academic Affairs.

LATIN AMERICAN STUDIES PROGRAM

Taylor participates as a member of the Christian College Coalition in a study abroad program in Costa Rica. This program is patterned after the American Studies program in Washington, D.C. The program allows students to experience a Third World culture and to study in an international context. Up to 16 semester hours of credit can be earned in a four-month term. The Academic Affairs office has details.

SINGAPORE PROGRAM

Taylor University is linked with Singapore Youth for Christ to offer courses on location in Singapore. A Taylor faculty member teaches courses in Singapore and supervises local faculty teaching other Taylor courses. A total of 30 hours of lower level courses are offered over a two-year period. The program leads to a Diploma in Christian Studies. Taylor students may study in Singapore for the same tuition, room, and board that is charged on the Upland campus. Such students are responsible for their own transportation costs to Singapore (reduced rates are available). Because the courses are freshman level, a decision to study for a semester in Singapore should be arranged early with the student's advisor and with the Academic Affairs office.

WESLEYAN URBAN COALITION

Taylor University is affiliated with the Wesleyan Urban Coalition. This coalition serves as a cooperative educational center linking the Olive Branch Mission in Chicago with ten Christian colleges and seminaries. Its objective is to foster personal and corporate discipleship in the context of the city of Chicago through involvement in urban ministry, living in Christian community and study of urban life and systems.

Specific programs range from weekend field trips, to month-long programs in January and semester-long programs in the spring. Up to four semester hours credit is available for the January experience and up to 16 semester hours for the semester program. Credit is available in a wide variety of fields. More information is available from the Office of Academic Affairs.

OREGON EXTENSION

The Oregon Extension is a program sponsored by Trinity College. A wide variety of courses are offered in a very personal, highly rigorous academic environment. The Fall semester program offers 15 hours of credit under the general category of "Contemporary Life and Thought." The Academic Affairs office has details.

THE TAYLOR PROGRAM

THE UNDERGRADUATE PROGRAM

The academic calendar includes a fall and spring semester, an interterm in January, and two summer sessions. Dates are subject to change, so students should confirm registration with their advisor.

Spring break is included in the Spring Semester with the date announced each year.

SUMMER PROGRAM

The summer program involves courses on campus, at the biological field station, and abroad. The sessions also offer independent studies, practicums, and internships. A biological field station and an art center near Mancelona, Michigan, offer a variety of courses in biology, natural resources management, physical education, and arts and crafts.

Summer Session I is a 3 week program during which students may complete up to 5 credit hours. Session II is a 5 week program during which students may complete up to 8 credit hours.

For more information on the summer session programs, contact the Associate Vice President for Academic Affairs.

INTERTERM

Interterm promotes a change of pace for students and professors in terms of scheduling and learning styles. Because students concentrate on a normal maximum of four hours, the design permits flexible learning activities including domestic or international travel. Students may supplement their programs with interdisciplinary or nontraditional courses or take a required course in a varied format. Students are encouraged to choose creative options to complement their programs.

CREDITS-IN-ESCROW

The Credits-in-Escrow program provides opportunity for outstanding high school students to enrich and expand their educational experiences through study at a Christian college. Certain Freshman level courses can be taken for future college credit. Course credit is transferable. For further information, contact the Academic Affairs Office.

SENIOR CITIZENS PROGRAM

A Senior Citizen's Discount is available to persons who qualify and complete a Guest Application with the Senior Citizen designation. The applicant must register for the desired courses and pay the appropriate charges at the time of registration. Information is available in the Academic Affairs office.

STUDY ABROAD

Students may select overseas experiences from numerous opportunities. In addition to study tours sponsored by Taylor faculty, there are several other options such as Practicum, Latin American Studies Program, Institute for Holy Land Studies, and cooperative programs with other colleges, the Consortium or the Coalition.

Students of superior achievement may, with approval, spend the junior year studying in one of several foreign countries. Student proposals for overseas programs are to be submitted to department heads during the term prior to the desired experience. For further information on Study Abroad programs, contact the Associate Vice President for Academic Affairs.

CONTINUING EDUCATION

Taylor University sponsors a wide variety of courses for continuing education credit or for the personal enrichment of life long learners. Courses are offered on campus in the evenings or Saturdays as well as at off-campus locations when arranged by a community group, organization or company. The Continuing Education program is accredited by the Association of Continuing Higher Education.

In addition, a variety of both credit and non-credit institutes, workshops, and short term sessions are held.

These are designed to meet the needs of people with special interests, including teachers, church workers, business personnel, and others.

Special features of Continuing Education offerings are the Executive Seminar Program (ESP) and the Administrative Assistant Certificate Program.

For further information regarding the program, contact the Director of Continuing Education or the Associate Vice President for Academic Affairs.

BUILDINGS AND EDUCATIONAL EQUIPMENT

A brief description of the major campus buildings is as follows:

The Reade Memorial Liberal Arts Center is a 35,000 square foot, air-conditioned facility containing classrooms, faculty offices, and the Learning Resources Center.

The Nussbaum Science Building, is named for Dr. Elmer N. Nussbaum who was Professor of Physics at Taylor for 31 years. Dr. Nussbaum's distinguished academic career and humble, caring spirit left an indelible impact on generations of Taylor students. The building is an air-conditioned, 45,000 square foot structure, contains biology, chemistry, and physics laboratories, classrooms, and faculty offices. The Information Services area houses a DEC PDP 11-70, a DEC VAX 11-750 computer, two micro VAX computers and peripheral equipment.

The Zondervan Library was completed and occupied in 1986. The library building was named for Peter J. "Pat" Zondervan and his wife, Mary. Pat Zondervan is Chairman and co-founder of The Zondervan Corporation, a Christian publishing company committed to the production of quality books in harmony with the Bible.

This new 61,000 square foot building holds more than 140,000 volumes and has room for 70,000 more. It also contains seating for more than one-third of the student population in both private study carrels and group study rooms. The space in the library is complemented by provisions for present and future technology. Communication conduits no more than five feet from most points in the library provide access to online services.

An online public access library catalog is replacing the traditional card catalog. The circulation system is being automated with barcodes placed on patron cards and all library materials. All cataloging and interlibrary loan has been done online through the OCLC computer network for the past decade. As a part of the online catalog, patrons have immediate access to the online holdings of six other Indiana libraries. As a member of EIALSA, a regional library cooperative, the library has access to the holdings of 80 other libraries, and the OCLC network gives access to over 6,000 libraries worldwide. Materials can then be ordered through interlibrary loan.

The library has an excellent reference collection, over 700 current periodical and daily newspaper subscriptions, as well as information retrieval through DIALOG, an online computer system of over 100 databases on an ever expanding number of topics. A large number of periodicals and two major newspapers are also available in microform and may be used on one of several readers or printers. A 24-hour study room is available off the beautiful walk-through **Galleria.**

The **Archives** of Taylor University is housed adjacent to the Galleria. The Archives contains materials relating to the history of Taylor University and the local community. The Special Collections of the Library, containing old and/or rare books, is shelved here on compact mechanical shelving.

The **Learning Support Center,** in the southwest wing of the Library, has personnel and technology available which provide individual instruction for improving reading comprehension skills, writing skills, and math computation skills. Individual music listening is also provided in the LSC. Through the technology of the LSC, radio and television transmissions can be made to the entire campus for student use in the learning process. The Ruth Flood room is equipped to provide high technology audio-visual presentations.

The Ayres-Alumni Memorial Building is a 19,000 square foot facility housing the temporary theatre and the Art Department.

The Helena Building, built in 1911, is a 10,000 square foot structure which serves as the University Welcome Center. The building was remodeled in 1987 and houses Admissions, the Office of the Provost/ Executive Vice President and the President's office.

Sickler Hall, the major Communication Arts Building, contains classrooms and faculty offices, and includes a prayer chapel which is furnished for individual and small group devotional experiences. It was built in 1902.

Ferdinand Freimuth Administration Building is a 14,000 square foot structure, which was first remodeled during 1972. The offices of Academic Affairs and University Advancement are lo-

cated on the second floor. Financial Aid and the Records Office are on the first floor. This facility also houses the offices of business and finance and alumni. The major remodeling of this building was made possible by the gift of Mr. Ferdinand Freimuth, a Fort Wayne stockbroker and philanthropist.

The Hermanson Music Center, a 23,000 square foot structure, is a new sound-proof, air-conditioned facility. It houses teaching studios, classrooms, rehearsal rooms, practice rooms, faculty offices, conference rooms, faculty and student lounges. Also, a 250-seat recital hall, housing a Boesendorfer grand piano and a Steinway, is designed to provide the best possible acoustical qualities. The entire facility is designed to be completely accessible to the handicapped.

The Don J. Odle Physical Education Facility was completed early in 1975. This 45,000 square foot facility contains two handball courts, a wrestling room, a weight room, classrooms, faculty offices, and a varsity basketball court with three cross courts. This building was constructed with generous gifts from alumni and friends. It replaced the nearly fifty-year-old Maytag Gymnasium.

The Field House is a newly-remodeled steel-paneled building providing additional opportunities for physical education and athletics. The football team room and nautilus weight lifting equipment are also contained in this facility.

The Biological Field Station of Taylor University operates at Big Twin Lake in northern Michigan. The campsite is located on a 130-acre tract of land on the shores of Big Twin Lake and is surrounded by the AuSable State Forest. The modern, new facilities consist of a large dining lodge and lounge, an interpretive center, a biology laboratory, staff and student cabins, a utility building, and waterfront facilities.

The Milo A. Rediger Chapel–Auditorium was completed in the spring of 1976. This 1600-seat facility, formerly Maytag Gymnasium, was remodeled into a new building through the generosity of many alumni and friends of the University. In addition to its spacious and beautiful auditorium, this building houses the Center for Student Development which includes Campus Ministries, the Counseling and Psychological Services Center, and the Career Development Center. In 1987, an elevator made the building accessible to the handicapped.

Samuel Morris Hall is a men's residence with 88 double rooms, a public lounge on the first floor and student lounges on each of the four floors. The building is named for Sammy Morris, a former student from Africa, whose life story is told in the film, "Angel in Ebony."

Grace Olson Hall, a residence hall for 300 women, was constructed and ready for use in 1966. It is decorated with lounges, a fireplace, and carpeted hallways.

Gerig Hall, constructed in 1971, is a four-story residence hall for 96 women. This structure, consisting of living-study suites, provides the intimacy of apartment-style accommodations with the dynamics of a larger group of students. Gerig Hall is named for Lester Gerig, a longtime Trustee and Taylor University benefactor.

English Hall is a women's residence hall housing 226 residents. It was opened in 1975 and named for Mary Tower English. English Hall is designed in much the same manner as Gerig Hall, providing private living room areas for each eight women. This residence is located on the south end of campus near several other residences and the health center.

Arthur L. Hodson Dining Commons is a $1,300,000 air-conditioned facility completed in 1972. It is located on the southwest corner of the campus overlooking the campus lake. This structure, which seats approximately 950 persons in the main dining hall, also contains a banquet room and private dining area. A four-way fireplace is a focal point for this facility.

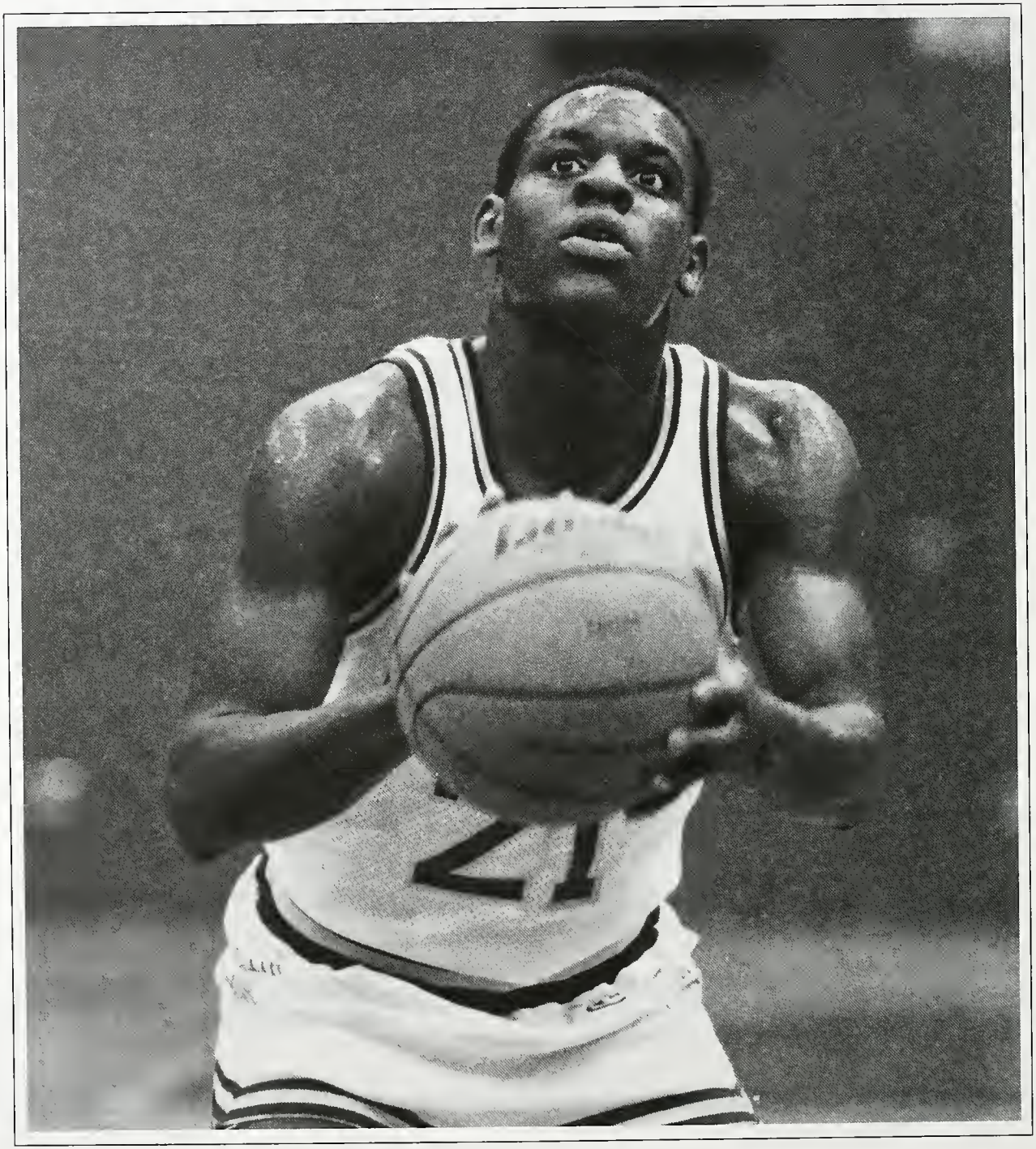
Student Union—This dome-shaped, air-conditioned facility provides space for student activities, the snack bar, and the campus store. The student activities portion, a 100-foot diameter circular area, provides lounge, reading, listening, and recreational space and accommodates offices of Leadership Development and Student Programs, Taylor Student Organization, Student Activities Council, Multicultural Student Organization, Student Services Council, campus newspaper, and yearbook.

Haakonsen Health Center is a 4,000 square foot facility located on the south end of campus. This structure was completed early in the summer of 1975 and contains five, two-bed rooms in addition to examining rooms and doctor's offices.

Wengatz Hall is a 133 room residence hall for men. It was constructed in 1965 and includes several lounges and a recreation room.

President's Home—The home of the Taylor University President graces a rustic wooded area west of the tennis courts and practice field. In this spacious two-story brick residence, the presidential family hosts numerous social functions.

The Lake—A picturesque 8-acre lake on the Taylor property provides swimming opportunity in summer and excellent ice skating facilities in winter. Part of the lake is used for studies in ecology, and nearby is a wooded picnic area.



STUDENT LIFE

The college program is designed not only to embrace a wide diversity of interests but also to use that diversity to challenge and strengthen the minds and spirits of each member of the student body.

The student's "whole person" development is enhanced by residence life programs specifically designed to enrich and support the classroom experience. Among those are a new-student program, a student leadership program, a student activities program, a student ministries program, living-learning seminars, residence hall activities, and a four-year career development program.

COLLEGE COMMUNITY LIFE

RESIDENCE LIFE

Taylor University is a residential campus with a strong emphasis on its residence life program. These living-learning centers serve as focal points for many meaningful experiences and activities.

SOCIAL LIFE

The academic year at Taylor is complemented by a variety of social functions including professional entertainment, a contemporary Christian concert series, films, banquets, special weekends (Homecoming, Parents Weekend, etc.) and student variety and talent shows.

CAMPUS MINISTRIES AND WORSHIP EXPERIENCES

Campus Ministries at Taylor is committed to the strategic task of helping students to have a growing intimacy with God—knowing Him and loving Him—in a dynamic developing relationship. Chapel meets each Monday, Wednesday, and Friday and includes two weeks for spiritual renewal; a week emphasizing cross cultural missions; and a marriage, family, and singleness week. Students are encouraged to attend a local church and evening services which are held on campus. The discipleship program on campus provides a student discipleship coordinator on each residence wing (one for each 30 students). An important part of this ministry is a small group program committed to the goals of Bible study, quality burden bearing-sharing fellowship, mutual prayer, and individual group outreach projects. Campus Ministries emphasizes practical experience in ministry and leadership. Taylor World Outreach (TWO) is the agency through which this is accomplished. There are seven student-led departments committed to leadership development and outreach: Community Outreach, Fellowship for Missions, Taylor Christian Artists, Youth Conference, Lighthouse (interterm mission to Birmingham, England and to Nassau, Bahamas), the Residence Hall Discipleship Coordinator program, and World Opportunities Week.

CULTURAL ACTIVITIES

An artist series features nationally-known performers in a series of concerts, theatre presentations, and lectures. The theater department presents frequent dramatic productions, and the music department offers chorale, oratorio chorus, band, orchestra, jazz band, and senior and faculty recital concerts.

ATHLETICS

The athletic program provides a valuable addition to the educational experience of the men and women of Taylor University. Athletics provide a model of life in which the participant may function as a whole person.

Intercollegiate sports for men include baseball, basketball, cross country, football, golf, soccer, tennis and track and field. On the intercollegiate level, women compete in basketball, cross country, softball, tennis, track and field, and volleyball.

Taylor holds membership in the National Association of Intercollegiate Athletics (NAIA) and the National Christian College Athletic Association (NCCAA).

A strong intramural program offers additional recreational and competitive participation for both men and women.

CAMPUS GOVERNMENT

Students participate in the affairs of Taylor University through the Taylor Student Organization, Inter-Class Council, student-faculty committees, and personal interaction with faculty and administrators. The president of TSO is a member of the University Cabinet (the President's Advisory Council). The Senior Class President is the Chair of the Inter-Class Council and serves as a representative to the National Alumni Council.

STUDENT ORGANIZATIONS

For students with specialized interests there are various clubs with social, practical, and academic benefits. They include organizations in the natural sciences, social sciences, radio, music, languages, and pre-professional areas. There are also dramatic, athletic, cultural, and political groups as well as student organizations which exist to add vitality to the spiritual life of the university.

STUDENT PUBLICATIONS

Students with writing ability, photographic skills or artistic skills may use them in the production of these student publications: *The Echo,* a weekly newspaper which serves as a sounding board for student views and carries news, editorials, photographs, and features; *Parnasus,* an annual literary magazine which features original work of students and faculty; *Ilium,* the yearbook, a student publication reflecting in photographs and copy an

overview of the year at Taylor and highlighting the major events and people of the year.

THE COUNSELING CENTER

The Counseling Center offers a wide range of psychological services to students on a non-fee basis. Services include stress management and interpersonal skills training, therapy and growth groups, and individual counseling. These services are coordinated by the University Psychologist. The Counseling Center is located on the lower level of the Rediger Chapel–Auditorium in the Center for Student Development.

HEALTH SERVICE

Taylor University employs a resident physician and a full-time nursing staff. The university also maintains a 10-bed health center that is open 24 hours a day. Equipment to care for most illnesses and injuries that might occur during the school year is available at the health center. Hospitalization for injuries and diseases that cannot be cared for at the health center may be arranged by the resident physician. Regular health services are not offered to summer school students. Students may visit the physician in the health center and pay for each office visit.

WANDERING WHEELS

Taylor students have the unique opportunity of enjoying a variety of experiences, both social and academic, through the Wandering Wheels program. The three phases of the Wandering Wheels ministry provide excellent educational opportunities—coast to coast bicycling, extended mobile retreats aboard the "possum" buses, and the unique Upland-based retreat center, all emphasize the vitality of the Christian life. Developed as an extension of Taylor's community outreach, Wandering Wheels sponsors many programs in which current students may participate for college credit.

MULTICULTURAL PHILOSOPHY STATEMENT

1. We believe in equality of all people as imbedded in Biblical teachings and as an integral part of our Christian commitment. We acknowledge that this is affirmed in the Constitution of the United States of America.
2. We believe in an environment in which people can live and work cooperatively, valuing the multiple cultures from which they have come without violating institutional values.
3. We believe in multicultural education as an interdisciplinary effort to prepare graduates who understand, appreciate and work effectively with those who are different from themselves.
4. We believe in global interdependence, implying the need to graduate people who are capable of functioning as global citizens.

EXPECTATIONS AND RESPONSIBILITIES

COMMUNITY LIFE AT TAYLOR UNIVERSITY

Taylor University is a community of Christians who are united in the pursuit of academic progress, personal development, and spiritual growth. Participation in the university community is based on the foundation of commitment to the Lordship of Jesus Christ. Together we seek to honor Him by integrating faith and learning while our hearts and lives reflect the process of maturing in Christ.

The purpose of this statement is to identify the expectations for participation in our community that will assist us in living together and in meeting our institutional objectives. We acknowledge that it is impossible to create

a community with expectations which are totally acceptable to every member. Nevertheless, certain expectations must be specified to assure orderly community life. When individuals join the Taylor community, they freely and willingly choose to take upon themselves the responsibilities outlined in this statement.

ASSUMPTIONS

1. Loving God and being accountable to Him are the primary motivations for Christian relationships and behavior.
2. The Bible is our authority; it provides the essential teachings and principles for personal and community conduct.
3. God, through the Holy Spirit, places in every believer the inner resources and attributes to minister to others through supportive relationships.

RESPONSIBILITIES FOR RELATIONSHIPS

Living in daily fellowship with other Christians is a privilege and an expression of God's grace. In recognition of this privilege, great value is placed on the quality of relationships in our community. We acknowledge that we are living in a fellowship where we are dependent on and accountable to one another. The New Testament word for fellowship is *koinonia.* It is translated as *partaker, communion, communication, contribution, distribution.* Members, therefore, are encouraged to seek as many opportunities as possible to demonstrate *koinonia.*

Within our community the greatest expression of fellowship and the highest principle for relationships is love.

> We should love one another. This is how we know what love is: Jesus Christ laid down His life for us. And we ought to lay down our lives for our brothers . . . let us not love with words or tongue but with actions and in truth. Since God so loved us, we also ought to love one another. Whoever loves God must also love his brother (1 John 3:11-16, 18; 4:11, 21 NIV).

For the purpose of our community we have identified the following specific expressions of love as being among the most desirable in our relationships.

Edification

We expect each member of the community to strive consciously to maintain relationships which support, encourage, and help others.

> We who are strong ought to bear the weaknesses of those without strength and not just please ourselves. Let each of us please his neighbor for his good, to build him up (Romans 15:1-2 NIV).

Bearing with One Another

Because of our humanness, difficulties in relationships can occur. In such cases we are to respond as the Scripture states:

> . . . clothe yourselves with compassion, kindness, humility, gentleness and patience. Bear with each other and forgive whatever grievances you may have against one another (Colossians 3:12 NIV).

Burden-Bearing

We are responsible to come alongside those experiencing grief, discouragement, illness, tragedy, or other personal trial. Expressions of bearing one another's burdens include comfort, encouragement, consolation, and intercession.

Speaking the Truth in Love

A community such as ours can be strengthened by speaking the truth to each other with love. Problems in relationships and behavior can be resolved constructively by confronting one another in an appropriate spirit. If the welfare of the one being confronted is paramount and if the confronter is acting in love, the process can produce growth.

Reconciliation, Restoration, and Restitution

Healing broken relationships is necessary for a healthy community. When relationships have been harmed, regardless of the reason, individuals are expected to reach out to one another, to forgive one another, to restore relationships, and to make restitution. II Corinthians 5:18-19 NIV states:

> . . . and He (Christ) has given us the ministry of reconciliation . . . and He has committed to us the message of reconciliation.

Implementing the above expressions of love in relationships requires continual effort and sensitivity to others. Relationships of this quality enrich our lives, honor God, and assist in meeting the goals of the university.

RESPONSIBILITIES FOR BEHAVIOR AND ATTITUDES

Biblical Expectations

Scripture teaches that certain attributes are available to individuals through the Holy Spirit. These attributes include "love, joy, peace, patience, kindness, goodness, faithfulness, gentleness, and self-control. Against such things there is no law" (Galatians 5:22-24 NIV). These "fruits of the Spirit" are to be sought, encouraged, and demonstrated in our relationships.

In contrast to encouraging these positive attributes of the heart, Scripture condemns attitudes such as greed, jealousy, pride, lust, and hatred. Although these attitudes are sometimes difficult to discern, they can hinder relationships with God and others and lead to unacceptable behavior.

Certain behaviors are expressly prohibited in Scripture and therefore should be avoided by members of the university community. They include theft, lying, dishonesty, gossip, slander, backbiting, profanity, vulgarity (including crude language), sexual promiscuity (including adultery, homosexual behavior, premarital sex), drunkenness, immodesty of dress, and occult practices.

In keeping with scriptural admonitions to bring ourselves under the authority of government, members of the Taylor University community are expected to uphold the laws of the local community, the state of Indiana, and the nation. An exception would be those rare occasions in which obedience to the civil authorities would require behavior that conflicts with the teaching of Scripture. On such occasions, each individual would submit voluntarily to the civil penalty for his behavior. Behavior resulting in civil arrest on or off campus is subject to review within the university's disciplinary procedures.

University Expectations

In addition to subscribing to biblical expectations, members of the Taylor University community voluntarily commit themselves to the following standards of behavior. This commitment results from the conviction that these standards serve the good of the individual as well as the institution. These standards are not set forth as absolutes or as an index of Christian spirituality but rather as expectations of this community. Because of the impor-

tance of trust in and responsibility to one another, violations of these standards are regarded as a serious breach of integrity within the community.

The following standards apply to students, faculty, and administrators at Taylor University.

1. Members of the community are expected to observe the Lord's Day (Sunday) by attending worship services at a church of their choice. Sunday is a day set apart primarily for worship, fellowship, ministry, and rest. While activities such as recreation may be a part of the day, "business as usual" relative to university programs and services will not be sanctioned or encouraged except where absolutely necessary.
2. Corporate worship, fellowship, and instruction are essential for campus community goals. Therefore, students, faculty, and administrators are expected to attend chapel. Regular attendance is understood as a mature response to these community goals. The attendance policy is not a voluntary one; it is dependent upon individual honor and allows three or fewer absences each term.

   In addition, members of the community are encouraged to participate in university-related religious activities as well as those of their own church.
3. The community recognizes the danger to one's physical and psychological well-being in the use of certain products. Therefore, members of the community are to refrain from the use of tobacco in any form, alcoholic beverages, hallucinogenic drugs and substances (including marijuana) or narcotics not authorized by a physician. Under no circumstances are the above to be used, possessed, or distributed on or away from campus. Members are expected not to abuse the use of legal substances.
4. Gambling (exchange of money and goods by betting or wagering) is viewed as an unwise use of God-given resources and therefore is not acceptable in any form.
5. Because a significant number of evangelical Christians view that social dancing is a morally questionable activity, social dancing is not permitted on or away from campus. However, acceptable forms of expression in the academic program may include sanctioned folk dance, ethnic games, and the use of choreography in drama, musical productions, and athletic events.
6. Because of our concern for the worth and dignity of persons, each member of the community is expected to be sensitive to special needs existing in our society and on our campus. Therefore, discrimination against others on the basis of race, national origin, sex, or handicap is not acceptable.
7. Any kind of demeaning gesture, threat of violence, or physical attack directed toward another person will not be tolerated. Vandalism of property is also unacceptable.
8. The university urges its members to be selective in their choices of entertainment and recreation. Activities and entertainment that are of questionable value or diminish a person's moral sensitivity should be avoided.
9. The pornography industry exploits people. Further, the use of the industry's products is immoral. Therefore, pornographic materials are not to be used, possessed, or distributed on or away from campus.
10. Consideration for others and standards of good taste are important to Taylor; therefore, all activities should be limited by this principle.
11. Members of the community are subject to the demands of academic integrity such as honesty and giving credit to sources.
12. Compliance with day-to-day policies and procedures of the community is expected from members. These routine items are listed in the *Student*

Life Handbook, the *University Catalog,* and the *Taylor University Faculty and Administrative Handbook.*

SUMMARY

The intent of this statement is to identify expectations that assist Taylor University in functioning as a Christian community and in achieving its goals as an institution of higher learning. The statement addresses relationships and behavior; these emphases are parallel and vital to the quality of our experience together. The behavioral portion of the statement includes standards that are specific to the university. These standards are important to our community and must be consistently maintained to assure a proper climate for learning. Nevertheless, these standards must be kept in perspective with the biblical responsibilities for relationships and behavior.

The book of Colossians provides an appropriate summary of the goals for our community:

> Therefore, as God's chosen people, holy and dearly loved, clothe yourselves with compassion, kindness, humility, gentleness and patience. Bear with each other and forgive whatever grievances you may have against one another. And over all these virtues put on love, which binds them all together in perfect unity. Let the peace of Christ rule in your hearts, since as members of one body you were called to peace. Let the word of Christ dwell in you richly as you teach and admonish one another . . . And whatever you do, whether in word or deed, do it all in the name of the Lord Jesus, giving thanks to God . . . (Colossians 3:12-17 NIV).

APPLICATION

Students are responsible for implementing the relational and behavioral expectations listed above when the university is in session, when they are part of a university program, or when they are living in university-approved housing.

Because the policies of the university are not intended to infringe upon the government of the home, *resident students* who are home for vacation or the weekend are assumed to be a part of that family unit and under the direction of their parents. *Students who commute* from the homes of their parents are expected to abide by these policies except when university regulations conflict with the governance of the home.

HOUSING

Residence hall facilities at Taylor are designed as living-learning centers. Taylor tries to fulfill two goals: first, to provide a community living experience through which students will be exposed to a variety of learning opportunities which go beyond the scope of their chosen courses; second, to provide attractive physical facilities and professional staff to assist students in developing a high degree of self-direction and responsible citizenship. Each residence hall director is a qualified educator, counselor, and a member of the faculty.

HOUSING DEPOSIT

Students who have been admitted to Taylor University and have paid the $150 advance payment will receive residence hall application material from the Center for Student Development. This material is to be filled out and returned to the Center for Student Development. Students who have made an advance payment for interterm or spring term will automatically receive a housing assignment in the mail approximately three weeks prior to their arrival on campus. Of this advance payment, $50 is a housing deposit and is returned when a student leaves college or cancels on acceptance (note refund policy). Charges for damage to residence hall property and other university-administered facilities are deducted from this housing deposit.

The advance payment plus the application for housing must be made before residence hall space will be reserved.

RESIDENCE REQUIREMENTS

All single students not commuting are required to live in university-owned or approved housing. Exceptions will be considered by the student development staff upon application in writing to the Center for Student Development. Only cases of need such as unusual health problems certified by the university health center and significant age differential between the student and general age range of the student body are considered.

COMMUNITY HOUSING

University-approved community housing for upperclassmen is available for use when residence hall facilities are fully utilized. Application for such housing is made through the Center for Student Development. Students living outside the college residence halls may not change their place of residence without first receiving permission from the Center for Student Development and they are expected to observe the same regulations and have the same responsibilities which apply to all resident students.

ROOM ASSIGNMENTS

Room assignments are made prior to the beginning of the fall term. Room and roommate preferences are honored within the limits of available space. The university reserves the right to assign space as it deems appropriate.

HALL REGULATIONS

The responsibility for determining residence hall regulations rests with the residence hall staff and the Student Life Committee. Changes in regulations will be made from time to time when such changes are considered to be in the best interest of the total university community.

ROOM FURNISHINGS

Residence hall rooms are furnished with the following items: window shades or draperies, beds, mattresses, desks, chairs, dressers, and study lamps. The university provides and launders two sheets, a pillowcase, two towels, and a washcloth. All but one sheet is exchanged for clean linen each week. Additional bedding not mentioned above must be furnished by the student.

CAREER DEVELOPMENT

The Career Development Office is responsible for assisting students in ascertaining their career interests and broadening their awareness of the numerous opportunities available through a liberal arts education. This office also assists students in securing employment upon graduation and maintaining their placement files.

ALUMNI ASSOCIATION

The Taylor University Alumni Association engages alumni, parents, and friends in a meaningful, continuing relationship with the University. The Association, which is directed by an 18-22-member National Alumni Council, accomplishes its objectives by means of campus events and various projects in regional Taylor University Clubs.

The Alumni Association participates in both alumni- and student-oriented programs. Members become involved in numerous ways which are beneficial to the students, faculty, administration, and the general development of the University.

The Alumni Association supports and encourages Taylor University in its whole-person approach to education.

ADMISSIONS & FINANCES

Through the Offices of Admissions and Financial Aid, prospective students may obtain information about how they may become involved in the unique educational experience at Taylor, which weaves together scholarship in the liberal arts tradition, Christian nurture and awareness, and concern for career development.

Students are invited to request particular information on admissions from the Dean of Admissions and about financial aid from the Director of Financial Aid. Students may call Admissions directly, toll free, (National) 1-800-882-3456 (Indiana) 1-800-882-2345.

ADMISSIONS

Application to Taylor is made on forms which can be requested by phone or by writing the Office of Admissions, Taylor University, Upland, Indiana 46989. Students are encouraged to submit the required credentials early in the year preceding their desired enrollment. Required credentials include the application form, high school transcript, recommendations from a guidance counselor and a minister, a photograph, and aptitude test scores (either the SAT or ACT). In some cases a personal interview may be requested by the Dean of Admissions.

Transfer students will present the same credentials as high school seniors and, in addition, an official transcript from each institution previously attended and a report on good standing from the last college attended. Generally a minimum B— average is required; test scores are not required if a full term of college work has been successfully completed.

International students desiring admission should write to the Office of Admissions for special instructions.

An applicant to Taylor should have graduated in the top 40% of the class from an accredited secondary school and present satisfactory aptitude test scores. Aptitude

test scores are used to help interpret a student's high school record, the primary document in the evaluation of academic potential. Recommendations from a guidance counselor and a minister are important as are a student's achievements in extracurricular activities. None of these is an acceptable substitute for academic achievement.

Applicants to Taylor should have four years of high school English, two years of mathematics (preferably one of algebra, the other geometry), a year of laboratory science, and two years of social studies. Two years of a foreign language are strongly recommended.

Aptitude tests may be taken as early as May of a student's junior year of high school or as late as January of the academic year preceding enrollment. For test scores to be considered official, they must be sent to the Office of Admissions, Taylor University, Upland, Indiana 46989, either through the high school guidance counselor or directly from the College Entrance Examination Board or the American College Testing service.

EARLY ADMISSIONS

Students with exceptional academic credentials may apply for admission during their junior year of high school.

TUITION-FREE SUMMER PROGRAMS

Taylor offers two tuition-free summer programs for outstanding high school students who have completed their junior year. These programs are conducted during the summer sessions. One program for children of alumni and the other is for honor students. Students may enroll for up to six hours of college credit to be held in escrow until their high school graduation.

RETENTION ASSISTANCE PROGRAM

Students accepted for admission may be assigned to the Retention Assistance Program (RAP). This program, under the direction of the Associate Vice President for Academic Affairs, is offered to nontraditional freshmen. It is designed to provide educational experiences that support the transition to the demands of the college classroom. Students take regular courses, but are blocked together for these courses. The teaching style of the instructor incorporates study skills in the classroom. Tutors are available in the Learning Support Center. Students assigned to this program are required to attend one of the summer orientations to take the Freshman Math and English Placement tests.

ADVANCED STANDING

ADVANCED PLACEMENT AND CREDIT

To seek advanced standing or college course credit, an applicant may take an Advanced Placement examination administered by the College Entrance Examination Board. Students who have passed an Advanced Placement examination with a grade of 4 or better may be eligible for placement at the next level of the college sequence and *may* receive college credit if the overall quality of their performance merits such recognition.

Advanced credit may also be gained through the subject exams of the *College-Level Examination Program* (CLEP). Complete information may be secured from the Director of Testing.

In French, German, and Spanish, advanced credit may be earned upon satisfactory completion of skills tests selected and administered by the department of modern languages. Complete information may be obtained from the department.

TRANSFER STUDENTS

Transfer students are welcomed at Taylor where attempts are made to facilitate their academic and social adjustment. Taylor University accepts in transfer those courses carrying grades of C or above from accredited institutions.

Transfer students from junior colleges may receive up to 66 semester hours of transfer credit.

Taylor has a cooperative arrangement with Fort Wayne Bible College which enables FWBC students to enter Taylor after completing the AA degree at FWBC. See the Registrar of either institution for details.

CORRESPONDENCE CREDIT

Correspondence study credit from approved institutions may be considered for transfer. A maximum of 6 semester hours is permitted.

ADVANCE PAYMENT

Taylor University requires a $200 advance payment for all full-time students who plan to live on campus during the regular school year. All new students are required to live on campus unless they are commuting from their parents' home. The $200 places the student on Taylor's housing list. $150 is applied to the term's bill and $50 is a housing deposit.

Students not living in university housing pay a $150 advance payment.

The fall term advance payment may be made any time after the student's acceptance, however the final date to submit an advance payment is April 10. Payments made prior to April 10 will be honored on a first come first serve basis. A student who cancels his/her advance payment prior to May 1 will receive $195 as a refund. A student who cancels after May 1 will not receive a refund.

The spring term advance payment may be made anytime after the student's acceptance, however the final date to submit an advance payment is November 1. Payments made prior to November 1 will be honored on a first come first serve basis. A student who cancels his/her advance payment prior to November 1 will receive a $195 refund. A student who cancels after November 1 will not receive a refund.

The advance payment for summer school is $25. If notice of cancellation is received in the Admissions Office before the first day of classes, $20 is refunded.

STUDENT EXPENSES

Students attending Taylor University are paying only a part of the actual cost of education. Each student receives an educational subsidy to the extent that the amount billed is less than the institution's cost of providing the educational experience. Income from contributions, earnings on the endowment, grants, and other sources offset the total cost of a Taylor education in the determination of student costs.

The college reserves the right to increase rates if and when necessary.

ANNUAL COSTS

Please refer to the Taylor University tuition and fee schedule for the current costs for an academic year.

OTHER CHARGES (SUBJECT TO CHANGE)

Certain other charges are assessed for courses requiring private or special instruction and for administrative costs for special services and transportation.

Minimum Music fees include one (1/2 hour) lesson and five practice periods per week.

COLLEGE LEVEL EXAMINATION PROGRAM

An examination fee of $28 is charged for each test administered, and a $15 recording fee is assessed for each course for which college credit is granted.

SUPERVISED STUDENT TEACHING

The $150 fee includes an orientation visit to the student teaching center, an honorarium for supervising teachers, the cost of applying for certification, and the informative student-teacher reception.

SPECIAL MATERIALS

Certain classes may require the student to purchase materials for specific projects or may require a basic material charge. These costs will vary by course and cover only the materials used by the individual student.

GRADUATION FEE

A graduation fee of $30 is charged to all candidates for graduation and is included in the cost for the last term of the senior year. It includes the diploma, cap and gown, and other graduation expenses.

STUDENT INSURANCE

Taylor University provides a student insurance program which is available to all students. The program is not mandatory, although students are encouraged to participate in it. Coverage is available for single students, for husbands and wives, and for families. Rates are available upon request from the Business Office.

CHANGE OF REGISTRATION

A fee of $25 is charged when adding a course after the first week of classes.

LATE REGISTRATION

A fee of $25 per week or fractional week is charged after the designated registration day of any term.

Payment of Bills

The bill for the fall semester is mailed to each pre-registered student at least one month prior to the beginning of the fall term. Charges for interterm will be included on the billing for spring term which is mailed at least three weeks prior to the beginning of spring semester. Pre-registered students are required to make the minimum payment two weeks prior to the first day of classes. Students not pre-registered must make the minimum payment on registration day to be enrolled in classes.

Payment of the amount due for each term may be handled in one of the following ways:

(a) Payment in full: Required of all students carrying 7 hours or less.

(b) Minimum payment: One half of the net amount due (i.e. charges minus financial aid listed on statement) must be paid two weeks prior to the start of the semester. The remaining balance will be due the last working days of October and March respectively. Any balances which are not paid by the due date will be subject to a 1.08% per month (13% annual) interest charge.

(c) Academic Management Service: This method of payment provides for monthly payments beginning in May in anticipation of fall enrollment.

Additional information can be found in the Brochure on Payment Policy. This publication may be secured in the Business Office.

(d) Special arrangements: Hardship cases must be worked out in advance of registration day with the Controller's Office.

A charge will be made for collection of overdue bills. If permission has been granted for a delay in the completion of the final payment due each term, a 1.08% per month or 13% annual carrying charge will be added.

All accounts must be paid in full before academic credit is granted and before a student can begin the process of registration for the next academic semester

WITHDRAWAL PROCEDURES

Withdrawal forms may be secured from the receptionist in the Office of Student Development.

Tuition charges for course withdrawal from a single class are refundable in full if the student clears the withdrawal with the Records Office during the first three weeks of classes. There is no refund of tuition if a course is dropped after the third week, but the student must still clear the withdrawal with the Records Office so as not to receive an F grade.

Refunds of student charges for tuition *in cases of withdrawal from college* are based on the following schedule:

Withdrawals to the end of	
Second week	90%
Third week 3	75%
Fourth week	60%
Fifth week	45%
Sixth week	20%
Withdrawals after end of sixth week	none
Basic fees	non-refundable
Board	prorated
Room	non-refundable

Refunds are based on the total term's bill and on the date the official withdrawal form is completed. The advance payment and housing deposit will be forfeited for students who complete registration but must withdraw before attending classes. Any deviations from the refund policy are at the discretion of the Vice President for Academic Affairs and the Vice President for Student Development.

If a student is receiving financial aid, funds will be returned to the aid source(s) according to the Taylor University Refund & Repayment Policy. Copies of this policy are available upon request from the Office of Financial Aid.

FINANCIAL AID

The financial aid program at Taylor recognizes that it is the basic responsibility of students and their families to finance a college education. However, the rising cost of education has made it necessary for many students to enlist financial assistance outside their personal resources. **Through financial aid, it is possible for nearly every qualified student who seriously desires to attend Taylor to do so regardless of financial resources.**

The financial aid programs offer assistance to students in need in the form of scholarships, grants, loans, and employment. Financial aid is awarded primarily on the basis of financial need, except in the case of merit scholarships which require superior academic achievement and ability.

Financial need is defined as the difference between a family's resources and the total cost of attending college. If there is a difference between the total cost of attending Taylor (including all tuition, fees, room, board, books, supplies, personal expenses, and travel expenses) and the ability of the family to meet these educational costs, the student is determined to have financial need. The factors taken into consideration when evaluating financial need include parental income and assets, student assets and

expected savings from summer employment, family size, and number of family members in college.

To determine the extent of the student's financial need and the family's ability to pay for educational expenses, Taylor uses the Financial Aid Form of the College Scholarship Service. An analysis of this statement yields the amount that the family can be expected to contribute.

It should be noted that most aid programs require that a student be enrolled full-time (minimum of 12 credit hours per semester). Students who plan to enroll on a part-time basis should consult the Director of Financial Aid about the availability of financial aid programs.

To continue to receive financial aid, a student must re-apply each year. To maintain eligibility for financial aid, a student cannot be on academic probation and he/she must also meet the criteria established in the Taylor University Satisfactory Academic Progress Policy. Copies of this policy are available upon request.

HOW TO APPLY FOR FINANCIAL AID

Students interested only in merit-based programs may disregard steps 3 and 4 below. Students applying for financial aid based on need must

1. Be accepted for admission to Taylor (for incoming students).
2. Complete a Taylor University Financial Aid application and submit it to the Office of Financial Aid.
3. Complete a Financial Aid Form (FAF) and submit it to the College Scholarship Service (CSS).
4. Submit a Financial Aid Transcript from each previously attended college to the Office of Financial Aid (for incoming transfer students).

These forms should be received by the Office of Financial Aid by April 1 in order to receive preferential consideration in the awarding of financial aid. Students whose forms are received after this date will be considered for financial aid only if funds are available. All of the above-mentioned forms are available in the Office of Financial Aid.

Families should complete the Financial Aid Form as soon as possible after January 1 and send it to the appropriate branch of the College Scholarship Service for processing. An allowance of 4 to 6 weeks should be made for processing and mailing time between the date the FAF is mailed and the date it is to arrive at Taylor. Although it may be helpful, it is not necessary for a family to complete their income tax return before completing the FAF. Be sure to indicate on the FAF that a copy should be sent to Taylor University (code 1802). Additionally, students desiring scholarships or grants from the State of Indiana, New Jersey, Pennsylvania, or Massachusetts should request that a copy of the FAF be sent to the appropriate state agency. All students should apply for a Pell Grant (formerly Basic Grant) by checking the appropriate box on the FAF.

Indiana residents: To be considered for state aid, the FAF must be postmarked before March 1.

Special note: Due to legislation pending in Congress at the time of printing, some of the above-mentioned forms may change.

SCHOLARSHIPS

Student Leadership Scholarships

Taylor University sponsors a scholarship competition each November at the High School Student Leadership Conference. The competition results in three students winning a $5,000 scholarship for each of their four years at Taylor. Details of the Conference and the competition are available from the Leadership Development Office.

President's Scholarship

This program is open to incoming freshmen who: (1) have an SAT-combined score of 1200 with a minimum

SAT-verbal of 500 and (2) graduate in the top 10% of their high school class.
The amount of this award is $1,000 without regard to financial need; however, it may range up to $2,000 if financial need is demonstrated. The award is renewable if a 3.0 GPA is maintained.

Dean's Scholarship

This program is open to incoming freshmen who: (1) have an SAT-combined score of 1100 with a minimum SAT-verbal score of 450 and (2) graduate in the top 15% of their high school class. The amount of this award is $750 without regard to financial need; however, it may range up to $1,500 if financial need is demonstrated. The award is renewable if a 3.0 GPA is maintained.

Trustee's Scholarship

This program is available to incoming freshmen who: (1) have an SAT-combined score of 1000 with a minimum SAT-verbal score of 400 and (2) graduate in the top 20% of their high school class. Incoming transfer students may also qualify if they meet the above criteria and have a 3.0 GPA at their previous college. The amount of this award is $500 without regard to financial need. The award is for one year only.

National Merit Scholarship

Taylor sponsors two such scholarships each year to qualified applicants entering as freshmen. The amount of the award will vary from $500 to $2000 depending upon the applicant's financial need.

Valedictorian/Salutatorian Scholarship

Incoming freshmen who graduated first or second in their high school class are eligible for an award for one year only in the amount of $500 without regard to financial need.

Miscellaneous Scholarships

There are a number of scholarships available that are made possible through the generous contributions of friends of Taylor. Students applying for financial aid are automatically considered for them. A complete listing is shown below:

Alumni Scholarship
Ancient Language Scholarship
Mary Rose Apple Scholarship
Rev. Alfred H. Backus Memorial Scholarship
Evan Bergwall Scholarship
Bowker/Kuhne Foundation Scholarship
James M. Bragan Memorial Scholarship
Charles W. Carter Award
Chi Alpha Omega Scholarship
Wilbur Cleveland Scholarship
Coburn Award
Communication Arts Merit Scholarship
Coughenour Scholarship
Marion L. Crawley Award
Rose Stanley Cozzens Award
Virginia H. Dillard Memorial Scholarship
Dillon-Long Scholarship
Eisenhower Memorial Scholarship
G. Harlowe Evans Chemistry Scholarship
Faculty Scholarship
Friends of Music Scholarship
Lester C. Gerig Music Talent Scholarship
Aileen Gortner Memorial Merit Scholarship
Grace Educational Assistance Grant
Granitz-Nelson Award
Gladys M. Greathouse Speech and Drama Scholarship
Taylor University Women's Guild Scholarship
Ralph and Ida Herber Scholarship
Huffman Educational Assistance Grant
International Student Scholarship
Alyce C. Isaacsen Award
Fern I. Jackson Memorial Scholarship
Charles H. and Wilma Dykeman Jennings Memorial Scholarship
Robert A. Johnson Scholarship
Dorothy Knight Scholarship
Charlotte Knox Canida Award
Lange Scholarship
Math Alumni Merit Scholarship
Willard J. McLaughlin Scholarship

William C. McClennan Memorial Award
Rosselle McKinney Scholarship
Robert and Coleen Midwood Merit Scholarship
Charles R. Miller Scholarship
Dorothy Beatty Miller Memorial Scholarship
Phillip J. Miller Memorial Scholarship
Sammy Morris Memorial Award
Muncie District-United Methodist Church Scholarship
Diane Newman Memorial Scholarship
Grace D. Olson Memorial Scholarship
Physics Alumni Foundation Merit Scholarship
Poplar Run Church Memorial Scholarship
Precision Scholarship
Presser Foundation Scholarship
Reade Center Faculty and Staff Scholarship
Reader's Digest Foundation Scholarship
I.N. Reitenour Scholarship
Religion and Philosophy Merit Scholarship
Donald Leon Roye Memorial Scholarship
Donald Ruegsegger Award
Science Faculty Merit Scholarship
Gerald J. Seagley and Waunetta B. Seagley Scholarship
Francis Schaeffer Memorial Scholarship
Shilling Art Scholarship
Alice M. Shippy Alumni Award
William J. Stapleton Memorial
Robert L. Stoops Memorial Scholarship
Marvin and Mary Ella Stuart Scholarship
R.R. Weed Memorial Scholarship
Joseph H. Yoder Memorial Scholarship

New Scholarships

Donors wishing to establish scholarships may contact the office of University Advancement.

Music Scholarships

A student majoring in music may apply for any of the several music scholarships which are awarded to students who display special talent with musical instruments or voice and who show promise of superior accomplishments in this field. Students interested in applying should contact the Head of the Music Department.

State Scholarships

In the past, the states of Connecticut, Massachusetts, Pennsylvania, Rhode Island, and Vermont have operated scholarship programs which permit the student to take a scholarship award to a college in another state. Interested students should contact their high school counselor or write the scholarship agency of their state for more information.

GRANTS

Pell Grant (federal)

This grant program, formerly called Basic Grant, is designed to be the floor upon which all other aid is built. A student may automatically apply for this grant by checking the appropriate box when submitting the Financial Aid Form.

Supplemental Educational Opportunity Grant (federal)

These grants are available to students who demonstrate an exceptional financial need.

Rediger Educational Grant

These grants are awarded to students on the basis of financial need.

Indiana Higher Education Award

The State of Indiana offers grants to qualified residents on the basis of financial need. Both initial and renewal applicants must have a copy of their Financial Aid Form sent to the State Student Assistance Commission of Indiana postmarked before March 1.

Indiana State Freedom of Choice Grant

The State of Indiana offers grants to students receiving Indiana Higher Education Awards who are attending private colleges and have high financial need.

Taylor University Donor Grant

This program is designed to assist needy students through the contributions of friends of Taylor University.

LOANS

National Direct Student Loan (federal)

This long-term, low-interest loan program is designed to assist students who demonstrate financial need as determined by the Financial Aid Form. Repayment and interest on this loan do not begin until after the student ceases to be enrolled on at least a half-time basis.

Guaranteed Student Loan (federal)

This long-term, low-interest loan program available through many commercial lenders is designed to assist students. Repayment and interest on this loan do not begin until after the student ceases to be enrolled on at least a half-time basis.

Parent/Auxiliary Loan (federal)

This loan program available through commercial lenders is designed to assist self-supporting students or the parent(s) of a dependent student. Repayment and interest on this loan begin 60 days after the funds are disbursed.

Taylor University Student Loan

This long-term, low-interest loan program is designed to assist students who demonstrate financial need as determined by the Financial Aid Form. Repayment and interest on this loan begin after a student ceases to be enrolled on at least a half-time basis at Taylor. These loans are made possible through the generous contributions of friends of Taylor and are listed below:

Ray F. Barnes Student Loan Fund
Betts Loan Fund
Bourquard-Caffray Student Loan Fund
Rev. John Campbell Memorial Fund
Dr. W.T. Carver Loan Fund
Rev. and Mrs. Harold Dakin Memorial Loan Fund
Daniel and Nancy Dame Student Loan
Nelva Snider Dober Loan Fund
G. Harlowe Evans Student Loan Fund
Indiana Federation of Clubs Fund
International Loan
Erwin and Eva King Fund
Frank Montgomery Fund
Peavy-Barnett Student Loan
Raymond E. and Garnet I. Rice Memorial Student Loan Fund
Schleicher-Utley Student Loan Fund
Daniel Schwenk Student Loan Fund
Mrs. Beatrice Shepherd Student Loan Fund
Speicher Charitable Trust Fund
Robert M. and Arthur D. Stewart Memorial Loan Fund
Elmer H. Stockman Loan Fund
Elizabeth Studabaker Student Loan Fund
Taylor Student Organization Loan Fund
Linton A. Wood Student Loan Fund

Taylor University Emergency Loan

Short-term loans are available which permit a student to borrow up to $100 for a period of 60 to 90 days.

EMPLOYMENT

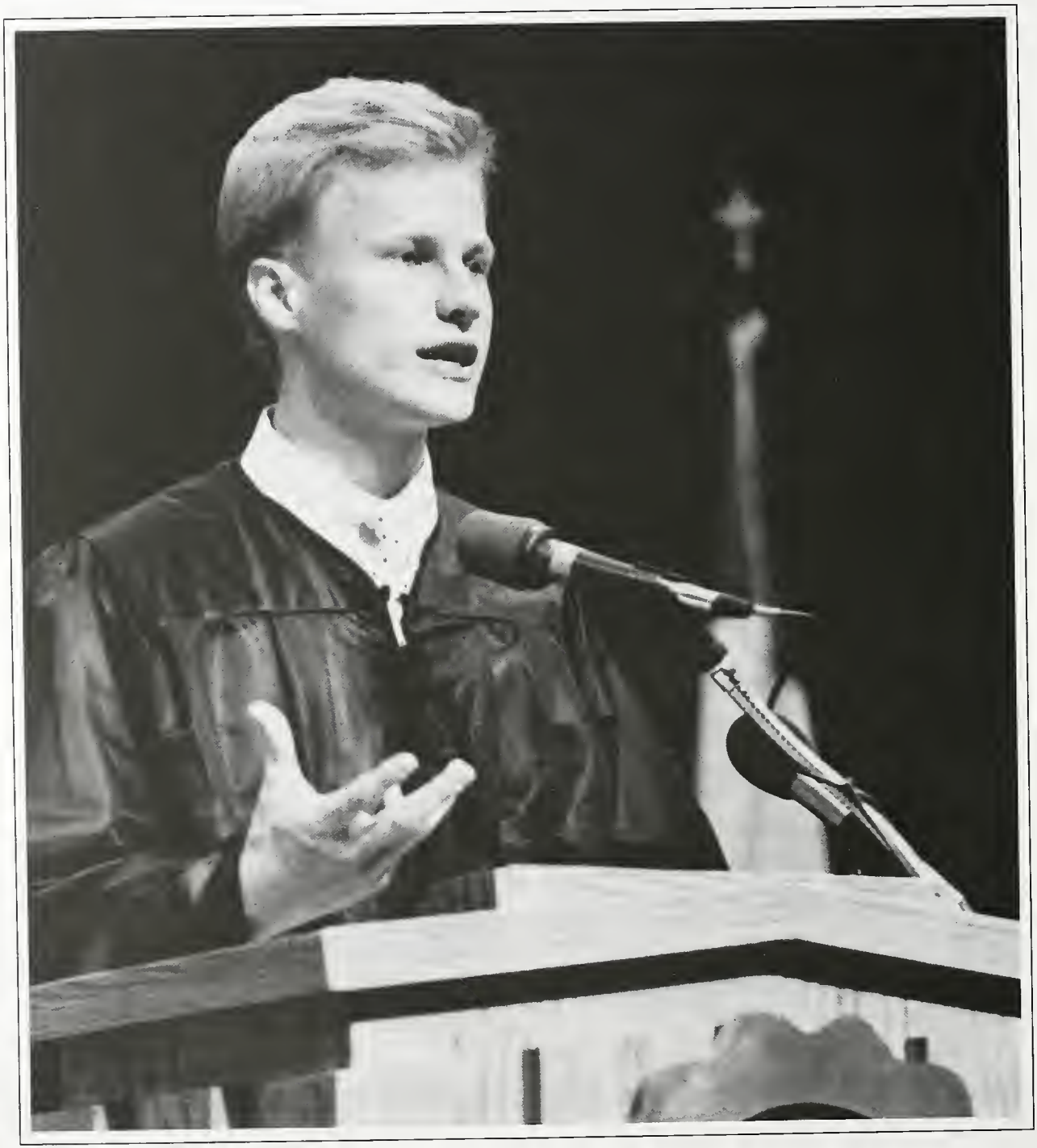
College Work-Study Program (federal)

This program is designed to provide students with meaningful employment to assist in meeting their educational expenses. To participate, a student must demonstrate financial need as measured by the Financial Aid Form.

ADDITIONAL INFORMATION

A detailed brochure on financial aid is available upon request. Specific questions about financial aid should be addressed to

Director of Financial Aid
Taylor University
Upland, IN 46989
(317) 998-5358



ACADEMIC REGULATIONS

Academic policies and regulations are administered by the Vice President for Academic Affairs, the Associate Vice President for Academic Affairs, and the Registrar.

STUDENT CLASSIFICATION

Students are admitted to Taylor University under the following categories:

Regular Status: This classification represents the normal admission category for applicants. Students must meet two of the three following minimal criteria: 1) top 1/2 of high school graduating class, 2) high school grade point average of 2.5 and 3) combined SAT scores of 850 or the ACT equivalent.

Honors Status: This classification is designed for the academically gifted. Any incoming freshman wishing to enter the program must have a 3.5 high school grade point average, rank in the top 10% of the graduating class, and have a combined SAT score of 1200 or more. (ACT equivalent scores are accepted.)

Guided Status: This classification is for applicants who do not meet the minimal academic standards of Regular Status. Students admitted under this classification must earn a grade point average of 1.7 during their first year as a full-time student in order to remain at Taylor. A grade point average of 1.7 achieved before that time will constitute Regular Status. Credits earned on Guided Status may apply toward a degree when Regular Status is attained. A student may not participate in intercollegiate athletics while on Guided Status.

Summer School Guided Status: This classification is for applicants who, because of major academic deficiencies, require a summer school experience to earn fall acceptance. A student must earn a 3.0 in 4 hours of summer session to earn fall Guided Status. Those students earning a 3.5 in summer school will be considered for Regular Status.

Guest Status: This classification is considered for the following:

1. Those who desire to take one or two courses at Taylor for the specific purpose of transferring the credit earned to a parent institution.
2. Those high school students who wish to take college courses and apply these hours to credits-in-escrow.
3. Those students who attend one of the consortium schools and desire to complement their course work at Taylor.
4. Those individuals who wish to take one or two courses solely for the purpose of self improvement.

No evaluation of credit is prepared but a statement of good standing from the parent institution is required.

RAP Status: Each year a few students are admitted under RAP status. The Retention Assistance Program has provided a bridge to assist certain selected students in the transition to college-level academic rigor.

GRADING SYSTEM

EXPLANATION OF GRADES, POINTS, AND CREDIT HOURS

Grade	QPA	Interpretation	Grade	QPA	Interpretation
A	*4.0*	*Superior*	*E*	*0*	*Condition*
A−	*3.7*		*F*	*0*	*Failure*
B+	*3.3*		*P*	*0*	*Pass*
B	*3.0*	*Good*	*CR*	*0*	*Credit*
B−	*2.7*		*W*	*0*	*Withdrawal from course*
C+	*2.3*		*WP*	*0*	*Withdrawal passing*
C	*2.0*	*Acceptable*	*WF*	*0*	*Withdrawal failing*
C−	*1.7*		*INC*	*0*	*Incomplete*
D+	*1.3*		*NR*	*0*	*Grade not reported*
D	*1.0*	*Passing*	*NC*	*0*	*No credit passing*
D−	*.6*	*Minimal passing*	*AUD*	*0*	*Audit*

THE UNIT OF CREDIT IS THE SEMESTER HOUR. GRADE POINT AVERAGE: points earned divided by hours attempted. Credit hours earned and carrying no quality point value do not appear in **HOURS ATTEMPTED** since they are excluded from the scholastic index computation. They are included in **HOURS COMPLETED** and **TOTAL HOURS.**

Classification Code		
FR - Freshmen	*SR - Senior*	*PG - Post-Graduate*
SO - Sophomore	*GD - Guided*	*PC - Pre-College*
JR - Junior	*UN - Unclassified*	*OC - Other Colleges*

ACADEMIC STANDARDS

The following table describes the minimum grade point averages required to be considered in good academic standing.

Class	Cumulative Hours	Required GPA Overall
freshman	*0-12*	*1.6*
	13-30	*1.7*
sophomore	*31-60*	*1.8*
junior	*61-94*	*1.9*
senior	*95-128*	*2.0*

Candidates for Associate Degree must have at least 64 hours with a GPA of at least 2.0.

PROBATION

A student who falls below these minimums will be placed on *Academic Probation* and will enter a special advisement program with an academic advisor and the Associate Vice President for Academic Affairs. Restrictions on extracurricular activities will be imposed. No student will be eligible to participate in intercollegiate athletics until returning to good academic standing. Failure after one semester to reach the minimum requirements may result in *suspension* from the university unless during the most recent semester a 2.3 or better is earned. First time suspension is for one semester and second time suspension is for one year after which time the student may apply for readmission.

ACADEMIC LOAD

ACADEMIC SCHEDULES

Registration for 12 or more hours constitutes full-time standing. A normal academic load is 15 to 16 hours per term and 4 hours during interterm. Freshmen who are employed on campus are not permitted to carry more than the normal load, except in the case of students participating in musical ensembles. Students with at least a C average may take 17 hours. A 3.0 grade point average is necessary to carry 18 hours; 3.3, 19 hours; and 3.6, 20 hours. In addition, approval to register for more than 17 hours must be secured from the Registrar.

INCOMPLETES AND NR RECORDS

A condition (E), incomplete grade (INC), or a grade not yet reported (NR), may be used when a student is unable to complete work by the end of the term due to circumstances beyond control (E or INC) or due to the design of the course (NR). Such grade reporting must be authorized by the Associate Vice President for Academic Affairs. The grade should be reported to the Office of Records as soon as the work is completed but not later than the last day of classes (the week before evaluation week) of the following full (fall or spring) term. If the grade is not reported to the Office of Records by that last day of classes, it is recorded as an F. When a condition grade is reported, the mark attained may not be higher than C.

WITHDRAWAL

Withdrawal occurs after the period during which changes of registration are permitted. In the case of a withdrawal from a course, the student's standing will be recorded as either passing or failing. Withdrawls must be cleared by Records Office. Refer to pages 27 and 36 for further information.

GRADES

All requests for change-of-grade (except an INC, NR, and E) must be approved by the Associate Vice President for Academic Affairs. Such a change can occur only before the end of the next term the student is in attendance after the original grade was awarded.

Full-time students are named to the *Dean's List* when they have earned a 3.6 or better GPA for the term and when at least one-half of their hours carry credit point values.

In order to maintain the minimum graduation standard of the college, students are required to earn a scholarship rating equivalent to at least two quality points for each credit hour for which they are registered. The average scholarship rating in terms of quality points is found by dividing the total number of hours for which the student is registered into the total number of quality points earned. For example, 15 scheduled hours and 30 quality points indicate a scholarship rating of 2.0, i.e., an average of C. *Pass-Fail* and *Credit* courses are exceptions to the above.

PASS-FAIL COURSES

Students may select to register for a course on a pass-fail basis subject to the following rules:

1. Open only to second-term sophomores or above with at least a 2.3 GPA, the exception being the Practicum which is open to all qualified students in good standing.
2. No course in the major field (except the Practicum) and no general education course may be taken pass-fail until all requirements in those areas are met.
3. The choice to take a class pass-fail must be declared by the end of the first week of classes.
4. Pass-Fail courses do not affect the GPA if passed.
5. Pass-Fail courses are limited to one course per term and a total of 13 term hours including the Practicum if taken Pass-Fail. Courses offered only on a pass-fail basis are not included in this total.

MID TERM REPORTS

At the midpoint of each term the Registrar sends a progress report to students whose level of work at that time is below C−. A copy of this report is also sent to each student's parents. These grades are not recorded in any way on the student's record. Final grade reports are sent to students and their parents at the end of each term.

REPEATED COURSES

For various reasons students request permission to repeat courses. By action of the faculty, a student may repeat any course at Taylor. All attempts in a course will be reflected on the student's transcript, and the cumulative GPA will reflect the most recent grade in the repeated course.

Duplicate credit hours are not given for two or more passing efforts.

INTERCOLLEGIATE ATHLETICS

For participation in intercollegiate athletics, a student must meet the requirements described above as well as those of the National Association of Intercollegiate Athletics and the National Christian College Athletic Association. Details may be obtained from the Director of Athletics.

A student athlete who drops below the 12 hour course load minimum required to maintain eligibility immediately becomes ineligible to participate in intercollegiate athletics.

REGISTRATION AND ADVISEMENT

Each student is assigned a faculty academic adviser in the department of the student's expressed interest. Students are expected to take initiative in choosing their courses to meet departmental and university graduation requirements; faculty advisers are available to students for consultation regarding course selection and registration.

Advance registration provides an opportunity for both new and returning students to register in advance for their courses and pay fees either in person or by mail before the opening of each term. Students not registered in advance may register and pay fees at the beginning of the term.

Changes of registration must be made within the first week of the term on the official form provided for that purpose. Courses dropped during the second and third weeks of the term will appear on the student's permanent record with a W. Any course dropped after this period and up to two weeks after mid-term, will receive either a WP or a WF. When a course is dropped later than two weeks beyond mid-term, the grade automatically is WF. The effect of WF on the GPA is the same as that of a full-term failing grade. All of the above procedures begin in

the Records Office and require the approval of the adviser and the Registrar.

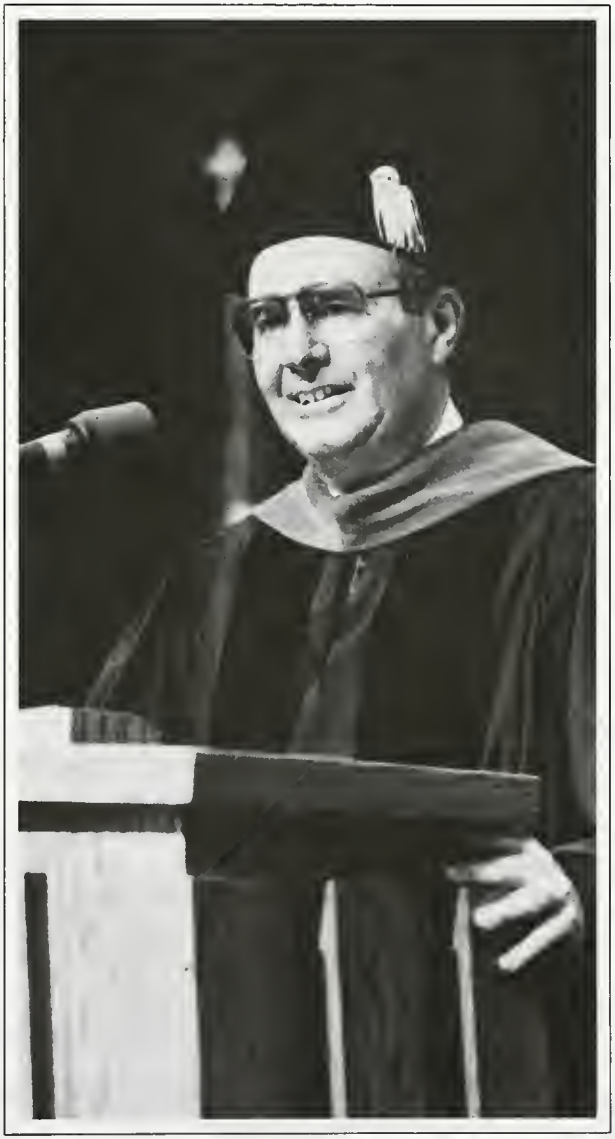
Late registration is possible only by consent of the Associate Vice President for Academic Affairs and only through the third week of classes. Students registering after two weeks are limited to 12 class hours. The late registration fee is $25 per week or fractional week.

Audit registration can occur only through the third week of classes.

DEGREE REQUIREMENTS

Taylor University awards three baccalaureate degrees and the associate of arts degree. The University also reserves the right to withdraw a degree if it subsequently determines that degree requirements were not met appropriately. The Bachelor of Arts degree is a liberal arts degree available to students from any major program who fulfill the general education and language requirements specified below; and the Bachelor of Science and Bachelor of Music degrees are awarded for the completion of the general education requirements listed below and the career patterns identified elsewhere in the curricular programs. Every baccalaureate degree candidate must complete the degree requirements for General Education, the requirements in the appropriate major field of study, listed with each department, and the applicable comprehensive examinations. **Only one degree will be awarded for the same major.** Students completing two majors may select either the Bachelor of Arts or Bachelor of Science degree providing all requirements for both majors have been met. The associate degree will be awarded to students who complete the courses of study outlined in the catalog.

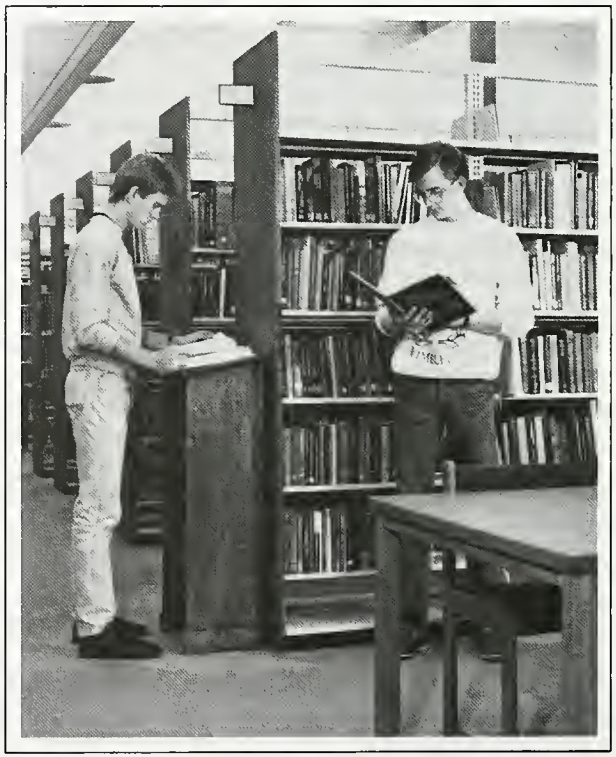
Students may elect to meet the graduation requirements which are in effect at the time they enter Taylor University, provided they complete their work within seven years. Otherwise, they must meet graduation requirements which apply to the class with which they are graduated.



GENERAL EDUCATION REQUIREMENTS

All students at Taylor University share certain common educational requirements. The central purpose of those requirements is to develop an integrated Christian world view. Representing nearly half of each baccalaureate program, general education provides bases for learning, breadth of intellectual experiences, and coherent understanding. It supports preparation for the world of work and enhances the study of the student's major. The faculty of Taylor University affirms that general education is intended to develop students who evidence the following values, knowledge, and skills and who can apply them creatively to all of life:

1. To recognize that all truth is God's truth and that the Christian faith should permeate all learning
2. To foster biblical understanding with emphasis on knowledge of God in creation, redemption, and personal relationship
3. To integrate faith and learning into a consistent, Christian life of worship, service, stewardship, and world outreach
4. To communicate the intellectual and experiential dimensions of the Christian faith
5. To write and speak effectively and appropriately
6. To achieve scientific, mathematical, and computer literacy
7. To acquire skills and attitudes for physical fitness and use of leisure time
8. To gain discerning enjoyment of the fine arts and contemporary culture
9. To develop self-discipline, emotional stability, and effective health practices
10. To accept the responsibility of a Christian within the family and society
11. To evidence enlightened acceptance of responsibilities within a culturally pluralistic world
12. To desire learning and intellectual challenges
13. To identify, develop, and use effectively one's learning skills and personal learning styles
14. To think critically in the acquisition of knowledge and in assessing the validity and relationship of ideas
15. To attain breadth in the liberal arts growing from historical perspectives, a knowledge base of the academic disciplines, and exposure to great ideas



REQUIRED COURSES FOR GENERAL EDUCATION

FRESHMAN LEVEL

IAS 101	Freshman Orientation	1 hr
IAS 110	Freshman Seminar	3 hrs
BIB 110	Bible Literature I	3 hrs
	(Should be completed during Freshman year)	
ENG 110	Expository Writing	4 hrs
HPR 100	Fitness for Life	1 hr
CAS 110	Public Speaking	2 hrs
	(Substitutes, except for Teacher Education Majors: CAS 120, 201, 331 or 372)	

SOPHOMORE and JUNIOR LEVELS

BIB 210	Bible Literature II	3 hrs
REL 313	Historical Christian Belief	3 hrs
Select one of these three courses:		
ENG	Literature	
	or	
CAT 200	Oral Interp of Literature	
	or	
FRE, SPA	Modern Language Literature	3-4 hrs
Select from two different science areas (one must be a lab course):		
CHE or PHY	I. PHYSICAL SCIENCE LAB COURSE	
	or	
BIO	II. BIOLOGICAL SCIENCE LAB COURSE	
	or	
OTHER	III. EARTH AND SPACE SCIENCE OR MATHEMATICS (GEO 210, GEO 240, ENS 351, PHY 201, MAT 140, MAT 151)	8 hrs

HPR 200	Skills Courses (2) (Substitutes for ONE skills course: PEH 240, PEH 200-Acting (with CAT 212), or Intercollegiate Athletics, or Contract programs)	2 hrs.
HIS	ONE History Course and one course from ECO, GEO, POS, or SOC	6-8 hrs
HUM 230	Arts as Experience (Fine Arts)	
	or	
HUM 330	Arts and Ideas (Fine Arts)	4 hrs
	and	
HUM 250	ART, CAT, or MUS participation - coded: PA (Participation must be arranged by the department and faculty member of the student's choice)	1 hr
CC	ONE CROSS CULTURAL COURSE (available in various departments and designated with CC)	3 hrs

SENIOR LEVEL

IAS 493	Senior Seminar (Capstone)	4 hrs
PHI 413	Contemporary Christian Belief	3 hrs

Other Requirements:

Two (2) courses designated as "WR" (writing). May overlap other requirements.
Two (2) courses designated as "SP" (public speaking). May overlap other requirements.
Entry Tests are required in Math, English, and Bible.
Language is required for a BA degree, although not technically a component of General Education.
COMPUTER SCIENCE is required either by passing a computer literacy test or taking a computer science course.

OTHER DEGREE REQUIREMENTS

A degree candidate must spend at least the senior year in residence at Taylor University. The only exception to this rule is for students majoring in natural science, or if the Educational Policies Committee grants advance permission.

One-half of the hours in the major field must have been earned at Taylor University. Freshmen are permitted to take 100 and 200 level courses only. Seniors who register for 100 level courses for each 3 credit hours must add one hour above the total (128) required for graduation.

In most programs, a minimum of 128 semester hours is required for graduation. Candidates for two degrees must submit a minimum of 158 semester hours and two different majors. No grade below D— is counted toward fulfillment of these hours, and no student may graduate with an overall grade point average below C (2.0). Higher averages are required in certain curricula.

In the major field a student must earn a 2.3 grade point average. Students must earn at least a C— in the required major core courses, otherwise the course must be repeated. Grades below C— will not be used in computing the grade point average of a student's major but will be included in the overall grade point average.

A minimum of 42 semester hours of upper-division (300-400 level) courses must be satisfactorily completed to meet graduation requirements.

All associate degree programs must include a minimum of 64 hours for graduation with a minimum overall GPA of 2.0. Any additional point requirements will be specified in the individual program. Graduates of any associate degree program must have spent the last two semesters in the program in residence at Taylor University and must have met the English proficiency requirement.

ENGLISH PROFICIENCY

Students who demonstrate the ability to organize and develop ideas accurately as tested on the Taylor English placement exam should enter ENG 110. Those students who do not show an acceptable level on the English tests must take ENG 100 first. Students completing ENG 100 with a C— grade or above will then be granted permission to enter ENG 110. Not meeting the C— or above standard will require either repetition of ENG 100 or an individualized developmental program administered by the Proficiency Committee.

A student transferring in comparable Expository Writing credit but not showing an acceptable level of proficiency on the entrance tests will remedy the deficiency under the direction of the Proficiency Committee. A student transferring in comparable Expository Writing credit and showing an acceptable level of proficiency on the entrance tests will be exempted from ENG 100 and ENG 110.

LANGUAGE REQUIREMENT

Candidates for the Bachelor of Arts degree must demonstrate the equivalent of two years of a foreign language for graduation. Those students who enter with a year or more of high school foreign language study must take the Modern Language Association proficiency tests before continuing in that language. Students will then be placed in language classes at the level indicated by these tests. Those who place beyond the intermediate level of the language will be considered to have fulfilled the language requirement and may be eligible to receive six hours credit by further testing. Students placing into 202 may receive credit for 201 if the grade earned in 202 is a "C" or higher. Students of a language other than those offered at Taylor University may choose to meet the language requirement by demonstrating proficiency equivalent to two years of college study of that language.

COMPREHENSIVE EXAMINATIONS

A candidate for every degree must pass a comprehensive examination in the major field of study. This examination is given during the senior year. In secondary education, the comprehensive examination is in the major teaching field. A student is allowed a maximum of three attempts to pass the comprehensive examination in any single major. If a student intends to graduate with more than one major, a comprehensive examination is required for each. The examinations are to be marked superior, pass, or fail, and the superior grade will be used only for work at the honors level.

GRADUATION INFORMATION

A student may complete requirements for graduation at midyear, in the spring, or in August. Commencement ceremonies are held only at the end of the spring term, at which time formal announcement of graduation is made and all degrees are conferred.

Candidates for graduation must fill out an Application for Graduation available in the Records Office. This form starts the process of credit evaluation to determine when graduation requirements have been met. Prior to their senior year, students should check the Schedule of Classes and registration procedures to determine the deadlines for submitting the Application for Graduation.

Taylor University diplomas are dated May, August, December, or January following completion of graduation requirements.

Attendance at graduation exercises is required. Petitions for the *in absentia* granting of degrees should be directed to the Registrar.

GRADUATION HONORS

In recognition of superior scholarship, the college awards three grades of honors at graduation: *cum laude, magna cum laude,* and *summa cum laude. Cum laude* is awarded those students with GPA of at least 3.5. *Magna cum laude* is awarded those students with a GPA of 3.7. *Summa cum laude* is awarded those students with a GPA of 3.9.

Graduation honors for transfer students are awarded under the following conditions:

1. The last 30 hours of graded courses must be Taylor University hours.
2. The GPA will be figured according to all hours which are applicable toward graduation from all institutions attended.
3. Honors will not be granted for a cumulative grade point higher than earned at Taylor University.

GENERAL ACADEMIC INFORMATION

CHAPEL ATTENDANCE

All students are expected to attend chapel and convocation services which meet Monday, Wednesday, and Friday each week.

ACADEMIC GRIEVANCE PROCEDURE

To assure an open atmosphere in academic endeavors, procedures have been established to provide fair process of any academic complaint registered by a student. Students who feel that unfair treatment may be taking place in their academic experience should consult the Student Life Handbook which has a detailed description of the informal and formal grievance procedures.

CLASS ATTENDANCE

Students are expected to attend all sessions of classes for which they are registered. Any necessary deviations from this expectation must be reported by the student to the professor of the class to be missed.

Excused Absences (with permission to make up work) will only be granted in the cases of

1. Admittance to a hospital, including Health Center (verified by Health Center).
2. Serious emotional illness (verified by Vice President for Student Development and Services).
3. Group absence for approved academic events. Students must make alternate arrangements with the professors whose class(es) they will miss.
4. Death of a family member or hospitalization of an immediate family member.
5. Very unusual circumstances as evaluated by the professor.

Unexcused Absences "Cuts" (without permission to make up work) must not exceed one per credit hour of the course. Penalty for excessive cuts will be communicated in each course syllabus. Cuts should be used for travel difficulties, bad weather, conflicting schedules, oversleeping, minor sickness, doctor or dentist appointments, and job interviews.

TRANSCRIPT OF ACADEMIC RECORD

A transcript of the student's academic record includes a list of all courses attempted at Taylor, grades and quality points earned, and credit received. The transcript also includes other information such as the high school graduation date and transfer credits.

Each student is entitled to one free transcript. Additional copies are $2 each. The payment must accompany the transcript order. No transcript will be issued unless all bills to Taylor University have been paid or are current according to an agreement with the Office of Business Affairs.

Transcript requests must be made in writing. Two weeks should be allowed after the close of a term for the issuance of an up-to-date transcript.

PRACTICUM COURSES

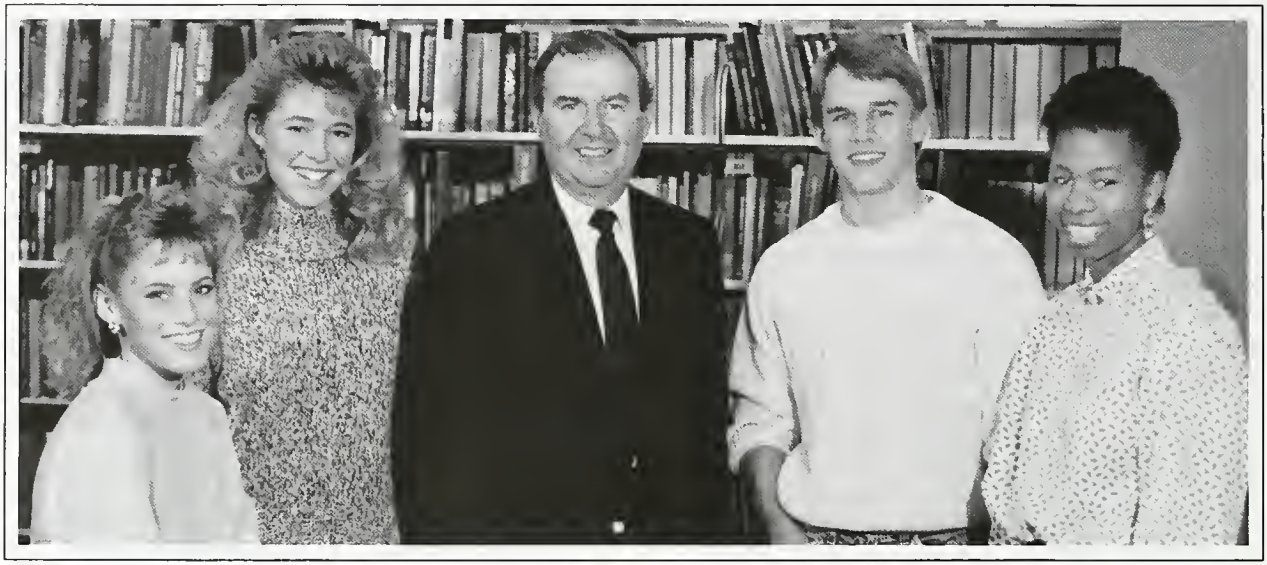
Most major programs offer a practicum, a course which involves both a significant applied experience and a meaningful supporting component (e.g., reading, interaction with professor) to provide background information and interpretive skills relative to the experience. Students generally arrange their own practicum assignment with guidance from and the approval of the supervising professor. Registration for a practicum takes place in the same way as any course through the Records Office *before* the term in which the practicum credit is to be given. Many students report that the practicum gives them experience and an opportunity to make contacts that are invaluable in their job search following graduation. For further information, consult the practicum course description.

INDIVIDUAL GOAL-ORIENTED MAJOR

The individualized, goal-oriented major program recognizes that departmental majors may not meet the unique needs of some students who attend Taylor University. This major allows a student with faculty guidance to design from existing courses a program of study which is valid academically, which meets personal and/or professional goals, and which results in a BA degree. This liberal arts major rests upon the broad base of general education courses required of all Taylor graduates.

To declare an independent major, a student must do the following:

1. Obtain a preliminary declaration of interest form at the Records Office. (Students must declare before beginning their junior year.)
2. Fill out the form and arrange an appointment with the chair of the Individual Goal Oriented Major sub-committee.
3. Obtain an Individual Goal Oriented Major application form from the sub-Committee chair.
4. Secure two faculty members who are willing to work as primary and secondary advisors. With their help, complete the application with a proposed program and submit three copies to the sub-committee chair.
5. The full sub-committee will review the application and recommend it be accepted, modified as specified, or rejected with advice to pursue an established major.
6. After proposal approval, work with the advisors as if pursuing an established major.
7. At the end of the junior year, obtain a Junior Progress Report Form from the sub-committee chair. Submit a completed copy to each advisor and to the sub-committee chair.
8. At the end of the first semester of the senior year obtain a Senior Progress Report Form from the sub-committee chair and complete. Submit a copy to each advisor and to the sub-committee chair.
9. Fulfill a senior seminar in one area, and write a senior paper which integrates the several components of the major.
10. Select a faculty member from the sub-committee to serve on the Reading Committee. Make four copies of the Senior integrative paper. Submit one copy to the primary advisor, one to the secondary advisor, one to the sub-committee member, and one to the sub-committee chair.
11. Arrange an oral evaluation session with the Reading Committee with the primary advisor as chair and be prepared to discuss the paper with this committee.
12. To graduate, the major must total a minimum of 40 hours.



THE HONORS PROGRAM

The Taylor University Honors Program is a challenging academic experience for high ability, highly motivated students. The Honors Program student may choose from all general offerings plus Honors courses. More than does the curriculum in general, Honors courses emphasize integration of faith and learning, ideas and values in content, and discussion and student initiative in format.

All Honors Program students who complete a minimum of 18 hours of Honors Program courses and maintain an overall GPA of 3.3 will earn the designation "Honors Program Graduate" on their official university transcript.

Students may apply for honors admission at any time prior to the freshman year or during their freshman or sophomore years. Those with tightly-scheduled majors will want to enter the program as early as possible, making it possible to enroll primarily in Honors courses that substitute for general education requirements rather than in those serving only as electives.

Normally an entering freshman wishing to begin the program should have earned a 3.5 high school grade point average and a combined SAT score of 1100 (or comparable ACT or PSAT scores). Those applying after completing a semester at Taylor should have demonstrated an ability to perform college work at the Honors Program level (3.3 GPA).

Further information including application procedures may be obtained by writing to the Director of the Honors Program.

HONOR SOCIETIES

Each year, Taylor students who excell in academic pursuits are inducted into the various honor societies for specific disciplines. Appropriate ceremonies are held to give campus-wide recognition to students whose academic record earns induction into a national academic honorary society.

Chi Alpha Omega is a scholastic honor society, election to which is limited to not more than 10% of the seniors and 5% of the juniors.

SUMMER HONORS PROGRAM FOR HIGH SCHOOL JUNIORS

High school juniors with a high school record generally consistent with the criteria for admission to the regular program are eligible to apply for admission to the tuition-free, five-week summer college experience for students entering their senior year of high school. Successful completion of the summer term will allow the participants, upon high school graduation, to apply the credits toward a Taylor degree as a regular Honors Program student. Or if the student elects to enroll in another college, the record of credit may be sent to that school.

All high ability students should be aware of the Taylor merit scholarship program and the advanced placement and credit program.

Further information on the summer high school program is available from the Admissions Office.

COURSES OF INSTRUCTION

Taylor University offers programs leading to various Bachelor's degrees, several Associate degrees, and pre-professional training. Each student selects a major (or possibly two majors) and meets the requirements for the chosen course of study. In addition, every student meets general requirements (see General Education) and may select from electives to complete his or her studies. A foreign language is required of students pursuing the Bachelor of Arts degree. Nearly every program may be combined with any other curricular ingredients (e.g., a language major may combine with a certificate in missions) while some programs are only available when combined with a BA or BS major (Environmental Science, Systems Analysis, and certificates, endorsements and minors).

FIELDS OF STUDY AT TAYLOR UNIVERSITY

Bachelor of Arts

Accounting
Art
Biology
Business Administration
Chemistry
Communication Studies
Computer Science
Economics
English
French
Health, Physical Education and Recreation
History
Individual Goal-Oriented
Mass Communication
Mathematics
Music
Philosophy
Philosophy of Religion
Physics
Political Science
Psychology
Religion
- Biblical Literature
- Christian Education
- Missions
- Religious Studies

Sociology
Spanish
Theatre Arts

Bachelor of Science

Teacher Education
Art
Communication Arts
Early Childhood
Elementary Education
English
French
Health, Physical Education
Mathematics
Music
Science
Social Studies
Spanish
Recreational Leadership
Social Work

Bachelor of Music

Sacred Music, Performance, Composition

Pre-Professional

Engineering
Law
Medical Technology
Medicine
Nursing
Theology

Associate of Arts

Business Administration
Early Childhood Ed.
Management Information Systems

Special Programs

An honors program is available for academically outstanding students.

The following cognates may be added to any Bachelor's degree program:

Environmental Science
Systems Analysis

Minors are available in many fields of study. Departments provide information.

Taylor University reserves the right to withdraw a course or to limit its enrollment when for any reason it becomes impractical to offer it as previously scheduled.

The text which follows provides the details of the courses of study. Listed alphabetically by departments, the material contains faculty names and course descriptions. A course description generally tells what the course content is, the level of difficulty of the course, and any prerequisites which apply. Courses not offered annually are identified.

Course Numbers and Levels

Course numbers indicate, in general terms, the level of difficulty of a course. Courses numbered from 100–199 are primarily for freshmen, from 200–299 are primarily for sophomores, from 300–399 are designed for juniors, and from 400–499 are intended for seniors. The prefix indicates the offering department or academic unit. **Freshmen are not permitted to take courses above the 200 level. Seniors who may be permitted to register for 100-level courses must present one additional hour for each three toward the total for graduation.**

NUMBERS USED BY ALL DEPARTMENTS

The following courses are offered in several departments, with descriptions for these courses the same for all departments. Descriptions are provided here, but these courses carry department prefixes

283 **1–4 hours**
Selected Topics

A course offered on a subject of interest but not listed as a regular course offering. Does not count toward the departmental major and does not meet general education requirements.

293 **1–4 hours**
Selected Topics

A course offered on a subject of interest but not listed as a regular course offering. May count toward the department major but does not meet general education requirements.

170, 370 **1–4 hours**
Selected Topics

A course offered on a subject of interest but not listed as a regular course offering.

360 **1–4 hours**
Independent Study

An individualized, directed study involving a specified topic. It is open to students with the consent of a supervising professor and the approval of the department head.

393 **1–4 hours**
Practicum

Supervised learning involving a first-hand field experience or a project. It is offered primarily during interterm and summer with the consent of a supervising professor, the approval of the department head, and registration through the Records office *prior* to the experience. The cost of a practicum is the same as for a regular course and is based on the number of credit hours.

450 **1–4 hours**
Directed Research

Investigative learning involving closely directed research and the use of such facilities as the library or laboratory. Consent of a supervising professor and the approval of the department head are required.

480 **1–4 hours**
Seminar

A limited-enrollment course designed especially for upper-class majors with emphasis on directed readings and discussion.

490 **1–2 hours**
Honors

Individualized study or research of an advanced topic within a student's major. It is open to students with at least a B average in the major field and with the consent of a supervising professor and the approval of the department head.

493 **4 hours**
Senior Seminar

A senior-level course designed to provide an overview and integration of the major field with reference to its rela-

tionship to the Christian faith. It is offered Interterm. Senior Seminar is described more fully on page 124.

ACCOUNTING

See **Business, Accounting and Economics**

ANCIENT LANGUAGE

See **Religion, Philosophy, and Biblical Languages**

ART

Head, Assistant Professor Moore, Professor Bullock

The Art Department at Taylor University has three aims: to offer liberal arts students general art courses which will contribute to their broad general education, especially for those who plan to utilize art in other related professions; to provide training for students who select the teaching of art in the public schools as a career; and, the training of professional artists.

The purpose of the Art Department is to educate those who will benefit themselves and others through the practice of the visual arts, and to offer opportunity to students in the university to broaden and enrich their experience by avocational study. Educational activities enable each student to increase his or her capabilities and resources for art and to develop responsibility for the images produced. The art program offers experiences dealing with a wide variety of ideas, principles, and materials. A major goal is the mastering of basic skills and techniques by providing the individual with a thorough background in the disciplines that are primary for effective creative expression. A major concern of the Art Department faculty is to perpetuate an environment

conducive to creative development and at the same time emphasize the significance of visual art in the Christian context, thereby realizing the universality of art with the hope of developing a better understanding of mankind.

Art majors pursuing the Bachelor of Arts degree must take 30 hours in art including ART 101, 201, 322, 412, either 321 or 332, and IAS 493. Also the following program is offered which leads to the Bachelor of Science degree in Secondary Education with a major in art. This major includes ART 101, 201, 202, 211, 300, 331, 412, IAS 493, HUM 230; PHI 342; and EDU 312. A total of 36 hours of art courses completes this program. The Art Department also offers the area major for students desiring certification in elementary and secondary education with a major in art. Students pursuing this program must complete 52 hours in art including those courses listed for the 36-hour teaching major. A 24-hour teaching minor is available in conjunction with the teacher education program.

Art majors are required to present an art exhibition at Taylor University during the fall, interterm, or spring of their senior year.

ART 101 **3 hours**
Beginning Drawing

Basic drawing which directs the student in mechanical/visual methods of observation utilizing pencil, charcoal, pen and ink, and felt pen.

ART 102 **2 hours**
Advanced Drawing

Advanced drawing problems dealing with a variety of figural and object themes exploring a wide range of media. *Prerequisite: ART 101.*

ART 201 **3 hours**
Art Fundamentals/Design

An introduction to the basic elements and principles of design in relationship to image formation through projects focusing on two-dimensional visual ideas utilizing a variety of media.

ART 202 **3 hours**
Three-dimensional Design

Three-dimensional design explored through structure and volume problems with emphasis on the understanding of form and space. Elements of plastic form are approached through the various media: clay, plaster, wood, glass, stone, and metal. *Prerequisite: ART 201.*

ART 211 **3 hours**
Ceramics: Handbuilt Forms

An introduction to basic clay formation techniques with emphasis on acquiring knowledge for the basic ceramic process: forming, glazing, and transformation through firing.

ART 212 **2 hours**
Ceramics: Wheel Throwing

An introduction to the potter's wheel, including emphasis on throwing, design, glazing, and firing. *Prerequisite: ART 211.*

HUM 230 **4 hours**
Fine Arts

See HUM 230 under Inter-Area Studies

HUM 250 **1 hour**
Participation in the Arts

Non-Art majors only.

ART 300 **3 hours**
Art for Teachers

Opportunities for the development of skills and experiences appropriate for use in the early childhood and elementary school programs. Easily available materials are utilized in art activities.

ART 301 **3 hours**
Printmaking

Exploration of most major aspects of the graphic arts workshop including: woodcut, linocut, intaglio, and serigraphy.

ART 311 **3 hours**
Jewelry

An examination and practice of enameling and study and construction of the simplest wood and metalworking processes with emphasis on construction of silver jewelry. Casting is introduced. *Offered 1988–89.*

ART 312 **2 hours**
Teaching in Secondary Schools

See EDU 312.

ART 321 **3 hours**
Painting: Oil/Acrylic

A studio course with still life, landscape, and original concepts as subject matter.

ART 322 **3 hours**
Lettering/Commercial Design

An introduction to graphic design and visual communication; includes experience in typography, layout, and fundamentals of advertising art.

ART 331 **3 hours**
Introduction to Art Education

A survey of the history and philosophy of art education in western civilization with emphasis on artistic growth and development and the relationship of art to the total school program. *Offered 1989-90.*

ART 332 **3 hours**
Painting: Water Color

Emphasis is on increasing watercolor skills. A variety of tools, techniques, approaches and ideas lead to larger finished works.

CAT 341 **3 hours**
Stagecraft and Design

See CAT 341

ART 342 **2 hours**
Aesthetics

See PHI 342. Offered 1989-90.

ART 344 **3 hours**
Arts and Crafts

Designed for the Recreational Leadership Major and the Art Major to further develop pesonal expression through an exploration of art and craft media. Experiences in arts and crafts will be related to development, understanding, and administration of arts and crafts programs. *Offered summer session at Cedar Bend Farm.*

ART 352 **3 hours**
Advanced Commercial Design

Involves the use of word and image in publication design. Areas include corporate identity, packaging and layout. Students explore the impact of graphic communication and its influence on contemporary society. Strong emphasis is placed on concept and technical application of design principles in graphic arts. *Prerequisite: ART 322*

ART 370 **1-4 hours**
Selected Topics

ART 393 **1-4 hours**
Practicum

ART 401 **3 hours**
Photography

Exploration of major aspects of photographic art including: history, design, developing, enlarging, kodalith, superimposing, solarization, and other artistic techniques.

ART 412 **4 hours**
History of Art

Survey and cultural analysis of the interelated fields of architecture, sculpture, and painting. *Offered 1986-87.*

IAS 493 **4 hours**
Senior Seminar

BIOLOGY

Head, Professor Burkholder; Professors G. Harrison, Rothrock, and Squiers; Associate Professor Whipple

The biology major consists of 36 hours, including BIO 101, 103, 104, 203, and 204, which are required courses. The student's academic advisor shall provide guidance in the selection of other courses leading to the Bachelor of Arts degree. A minimum of 32 hours in the major must be in courses other than BIO 360, 393, 450, 490. Also required are two terms of chemistry (CHE 201, 202); however, four terms are strongly recommended. PHY 211, 212 and NAS 480 are also strongly recommended.

All majors (except pre-medical) are required to take at least 6 hours in the Taylor summer field program (or its equivalent). The specific program to fulfill this requirement shall be determined by the department.

The department, in cooperation with other science departments and the education department, offers a science teaching major with a primary emphasis in biology leading to the Bachelor of Science degree.

For pre-medical, pre-nursing, and pre-medical technology program requirements, see Pre-Professional Studies. "Pre-medical" is interpreted to mean a student who follows the specified pre-medical program and takes the MCAT at the designated time.

A biology major may be combined with a concentration in environmental science. (See Environmental Science program.) This combination is particularly valuable for students with career goals involving ecosystem analysis, environmental planning and resource management, human ecology, or outdoor education. This biology track which is supportive of the environmental science emphasis leads to the Bachelor of Science degree.

Individuals who are interested in the more technical aspects of natural resources management, such as forestry, fisheries and wildlife, parks and recreation, and resource development, may elect to obtain a Bachelor of Science degree in Biology with an emphasis in environmental science at Taylor. They would then be prepared to complete their advanced training in natural resources at another institution.

Taylor University is affiliated with the AuSable Trails Institute of Environmental Studies in Mancelona, Michigan. Taylor students may take summer courses for credit at AuSable and may also complete requirements for certification as naturalists, environmental analysts, land resources analysts, or water resources analysts. Certification requires a summer of work at AuSable in combination with specific courses taken on the Taylor campus. Detailed information is available from the Chairman of the Biology Department.

BIO 100 **5 hours**
General Biology

Concepts and principles of biology imparting basic knowledge that assists the student to meet his/her obligations as an informed citizen. Four hours lecture and two hours laboratory per week. *Fulfills biology general education requirement but is not available to biology majors.*

BIO 101 **3 hours**
Principles of Cell Biology

Study of generalized subcellular structures and metabolism emphasizing dependence of function on structure, principles of organization and capture and utilization of energy. *Two hours lecture and two hours laboratory per week. Does not normally satisfy biology general education requirement; see department head for more specific information.*

BIO 103 **3 hours**
Introductory Plant Biology

Introduction to plants, monerans, algae, and fungi. Structure, growth, and development of the flowering plant body are emphasized. *Two hours lecture and three hours laboratory per week. Does not normally*

satisfy biology general education requirement; see the department head for more specific information.

BIO 104 **3 hours**
The Animal Kingdom

A taxonomic survey of the major phyla in the animal kingdom from Protozoa through Chordata. Classification, characteristics, representative forms, relations to man. *One hour lecture and four hours laboratory per week. Does not normally satisfy biology general education requirement; see the department head for more specific information.*

BIO 203 **3 hours**
Principles of Genetics

Fundamental principles of Mendelian inheritance as they apply to living organisms. Population genetics will be studied as well as natural selection and the concepts of evolution and creation. *Two hours lecture and two hours laboratory per week. Does not normally satisfy biology general education requirement; see the department head for more specific information.*

BIO 204 **3 hours**
Principles of Ecology

An introduction to the relationships existing between organisms and their environment. Lectures focus on the structural and functional aspects of populations, communities, and ecosystems in the context of the major North American biomes. *Two hours lecture and two hours laboratory per week. Does not normally satisfy biology general education requirement; see the department head for more specific information.*

BIO 231 **4 hours**
Environment and Man

Introduction to ecological principles and the impact of man on his environment. Issues studied include population dynamics, resource status, pollution problems, and environmental ethics. Laboratory time will be divided among field experience in ecology, environmental education and small group discussions of current environmental issues. *Three hours lecture and two hours laboratory per week. This course fulfills the biology general education requirement.*

BIO 241, 242 **4 hours**
Human Anatomy and Physiology

A two-course sequence systematically covering the structure and functions of the human body. *Three-four hours lecture and two hours laboratory per week. BIO 241 fulfills the biology general education requirement.*

BIO 244 **3/4 hours**
Human Anatomy and Physiology

A survey study of the structure and function of the human organism as studied in Biology 241. *Offered Summer Session I in even years only. BIO 244 plus either BIO 245 or 242 fulfills the Biology General Education requirement. BIO 244 taken for 4 hours will also fulfill that requirement but must have permission of instructor.*

BIO 245 **3 hours**
Human Anatomy and Physiology

A survey of the structure and function of the human organism as studied in Biology 242. *Offered Summer Session I in odd years only.*

BIO 301 **4 hours**
Taxonomy of Vascular Plants

Identification, classification, and systematics of vascular plants. Laboratory emphasis on local flora and plant family characteristics. Two hours lecture and four hours laboratory per week. *Prerequisites: BIO 103, (203 recommended). Offered Fall semester of even years only.*

BIO 304 **4 hours**
Field Studies in Natural History

Introduction to basic field and lab methods used in field natural history. Includes basic nomenclature of spring flora and fauna in terrestrial as well as aquatic systems. Provides an overview of the history and philosophy of natural history through the writings of naturalists such as Aldo Leopold, Conrad Lorenz, John Muir, and N. Tinbergen. *Prerequisites: BIO 103, 104, 204 or permission of the instructor. Offered Summer Session I only.*

BIO 312 **4 hours**
Cellular and Molecular Biology

Analysis of the living cell with regard to its physiological and biochemical characteristics including: enzyme function, bioenergetics, nucleic acid replication, and biosynthesis as related to the cell cycle. Three lectures, one three-hour laboratory per week. *Prerequisite: BIO 101 and 203. Two courses in chemistry (Organic recommended). Offered Fall semester of even years only.*

BIO 313 **3 hours**
Entomology

A study of insect taxonomy, ecology, life histories, and economic importance. Special attention will be given to environmental stewardship issues including use of insecticides, biological control, integrated pest management, and impact of cultivation on formaion of pest faunas.

Field methods are stressed. *Prerequisite: BIO 101, 104. Offered at AuSable Institute, Summer only.*

BIO 322 **3 hours**
Ornithology

Identification, classification, anatomy, life history, and migration of birds. Biological principles are illustrated. Consists of one hour lecture and two 2-hour field or laboratory sessions per week. *Does not normally satisfy biology general education requirement; see the department head for more specific information. Offered Spring semester of even years only.*

BIO 323 **3 hours**
Aquatic Biology

Collection, identification, and ecological position of fresh-water organisms. Taxonomic skills are developed. *Prerequisites: BIO 103, 104, and 204. Offered at AuSable Institute, Summer only.*

BIO 331 **4 hours**
Comparative Anatomy

Classification, characteristics, and comparison of typical chordate animals, with emphasis on the vertebrates. Two hours lecture and four hours laboratory per week. *Prerequisite: BIO 104 or permission of instructor. Offered Fall semester of even years only.*

BIO 332 **4 hours**
Developmental Biology

A study of development at the molecular, cellular and organismal level. The lecture sessions will focus on current concepts in developmental biology, and the lab will be classical vertebrate embryology (frogs, chick, pig). Three hours lecture and three hours laboratory per week. *Prerequisites: BIO 101 and 104. Offered Spring semester of odd years only.*

BIO 341 **4 hours**
Plant Physiology

An introduction to the interrelationships between physiological processes and plant growth and morphogenesis. Plant metabolism, water relations, mineral nutrition, photosynthesis, and hormone systems are studied. Three hours lecture and three hours laboratory per week. *Prerequisites: BIO 103 and CHE 201, 202.*

BIO 342 **3 hours**
Fish Biology and Ecology

Identification, ecology, exploitation and stewardship of fishes and their habitats, Field studies include non-commercial and commercial fisheries in the Great Lakes region, ecological dynamics of fisheries exploitation and population ecology, fishing techniques, and fishing rights and regulation. *Prerequisites: BIO 101, 104 and 204. Offered at AuSable Institute, Summer only.*

BIO 352 **4 hours**
Animal Physiology

A study of the physiological nature of living organisms with special consideration of the functions of vertebrate organ systems. Practical experience in working with live animals and instrumentation used to examine the functional processes of various systems. Three hours lecture and three hours laboratory per week. *Prerequisites: BIO 104 and CHE 201, 202. Offered Spring semester of even years only.*

BIO 360 **1–4 hours**
Independent Study

BIO 362 **4 hours**
Advanced Genetics

A study of current concepts of genes and their activity, emphasizing the molecular biology of bacteriophages and bacteria. Cytogenetics and somatic cell genetics in eukaryotes will also be explored. Three lectures and one three-hour laboratory per week. *Prerequisites: BIO 101 and 203; two courses in chemistry. (BIO 371 recommended.) Offered Fall semester of odd years only.*

BIO 370 **1–4 hours**
Selected Topics

BIO 371 **4 hours**
Microbiology and Immunology

A study of micro-organisms. Major emphasis is placed on the fundamental principles underlying the activities of bacteria and on the preparation of slides and cultures. Some emphasis will be placed on the study of virology as well as cellular and humoral immunology. Two hours lecture and four hours laboratory per week. *Prerequisites: BIO 101. (BIO 203 and two courses in chemistry recommended.)*

BIO 380 **4 hours**
Systems Ecology

The principles of systems theory will be introduced in an integrated study of the development, dynamics and disruption of natural ecosystems. Theoretical, analytical and experimental aspects of ecosystems will be explored. Students will be introduced to the use of microcomputers as a tool in ecosystem modeling. *Prerequisites: BIO 204 and one course in college level mathematics or computer science.*

BIO 393 Practicum	1–4 hours
BIO 411 Biochemistry	4 hours
(see CHE 411)	
BIO 450 Directed Research	1–4 hours
BIO 490 Honors	1–2 hours
IAS 493 Senior Seminar	4 hours
IAS 499 Special Study	1 hour

BUSINESS, ACCOUNTING, AND ECONOMICS

Head, Associate Professor Gortner; Associate Professors Benjamin, Erickson, Rotruck; Assistant Professors Coe and Bennett

The mission of the Business, Accounting and Economics Department is to prepare well-rounded, ethical, competent Christian people for a variety of careers in the competitive world of business and/or for graduate studies leading to an MBA degree.

As a segment of Taylor's "whole person" educational program, the Business, Accounting and Economics Department offers opportunities to earn a BS degree in systems, coupled with a major in accounting, business administration, or economics; or a BA degree in one of these three majors. Candidates for the BA degree are encouraged to study a modern language beyond the required level to attain fluency in a second language in combination with skills in accounting, business or economics. An associates degree in business is also offered, as are minors in accounting and economics.

All business, accounting, and economics courses combine theory, principles, techniques, and practical applications to enhance graduates' employment opportunities or serve as a solid groundwork for graduate studies. Relevancy to current, real-world situations is emphasized and, toward that end, students are asked to subscribe to *The Wall Street Journal* during their sophomore, junior, and senior years. Field trips and expert guest lecturers are used as appropriate. A Free Enterprise Laboratory provides students an opportunity to manage a small business in retailing, manufacturing or management consulting. Graduation requirements in the three majors include passing all core courses with grades of C – or better. Also, a grade of C – or better must be achieved as a condition for taking subsequent or sequential courses for which the core courses are a prerequisite. A passing grade must also be achieved on a Senior Comprehensive Examination.

The bachelor's degree with a major in business administration consists of 45 hours of accounting, business, and economics courses. A core of 9 courses is required, including the following: ACC 241 and 242; BUA 231, 311, 352, and 361; ECO 210, 211, and 212. In addition to the core, 15 hours of concentration courses are required from among the following fields as selected by the student and faculty advisor for each individual student: accounting, economics, finance, management, marketing, or other selected campus courses which will supplement the student's program. At least one 300 or 400 level ECO course must be included. A final capstone course, IAS 493 (Senior Seminar), is required for all majors. The following cognate subjects, outside of the accounting, business, and economics areas, are also required of candidates for the BA degree: MAT

110 (or a higher level math), COS 110, and NAS 240. Required cognate courses for BS degree candidates are MAT 151, COS 120, and NAS 240.

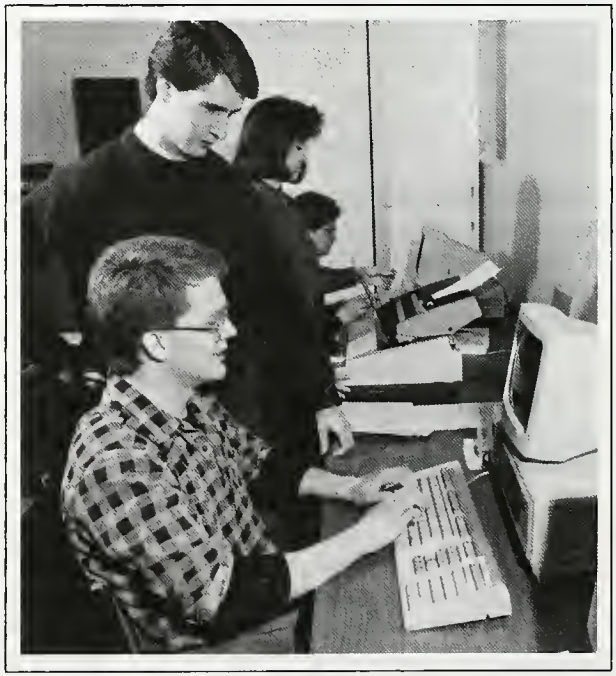
The accounting major is designed to prepare students for accounting and financial careers in business, government, education, and non-profit organizations. The program presents accounting theory and practice, current developments and ethical considerations discussed in a Christian context. Students are taught how to develop, analyze, and interpret financial plans and results and to provide management information in the most useful manner. Guided by faculty advisors, students may pursue programs leading toward certification in public accounting or management accounting, based on a combination of training, experience, and individual capabilities.

Either bachelor's degree with a major in accounting consists of 48 hours of accounting, business, and economics courses. A core of 14 courses (41 hours) is required, including: ACC 241, 242, 301, 341, 342, 405, 416, and 442; BUA 311, 352, and 361; and ECO 210, 211, and 212. Three additional hours of accounting courses are required from the following courses: ACC 302, 321, 360, 370, 393, and 458. The senior seminar course, IAS 493, is required for all majors. The following cognate subjects, outside of the accounting, business, and economics areas, also are required of candidates for the BA degree: MAT 110 (or a higher level math), COS 110 or 120, and NAS 240. Required cognate courses for BS degree candidates are MAT 151, COS 120, and NAS 240.

The accounting minor recognizes attainment of a sound, working knowledge of accounting in addition to another major field of study. Required are: ACC 241, 242, 301 or 302, 341, 342, 442, and COS 120 (cognate course).

An economics major requires at least 30 hours of economics courses including ECO 210, 211, 212, 331, 332, and IAS 493 (Senior Seminar), and 12 additional hours of 300 or 400 level economics courses. The following cognate courses are also required: calculus (MAT 151 or MAT 110 and 140); two statistics courses (NAS 240 and MAT 382); COS 110 or 120; and one business, accounting or political science course. Most economics majors also have a second major in one of the cognate areas.

The minor in economics may be earned by students majoring in other disciplines who wish to better understand the economic environment in which they live. 17 hours of economics courses plus four cognate hours are required, as follows: ECO 210, 211, 212, 331 or 332, two additional 300/400 level Economics courses, and NAS 240 (cognate course).



ASSOCIATE OF ARTS DEGREE IN BUSINESS ADMINISTRATION

An Associate of Arts degree in business administration is offered for students who want post-secondary training in business administration to prepare themselves for entry level positions in business. This program also allows students to proceed on to a bachelor's degree in Business Administration in a normal sequence. This degree includes a minimum of 68 hours as follows: (Some variations in scheduling general education courses are permissable.)

Year One

Fall Term

ENG	*110*	*Expository Writing*	*4*
MAT	*110*	*Finite Math or*	*3*
MAT	*151*	*Calculus w/Analytical Geometry*	*4*
BIB	*110*	*Bible Literature I*	*3*
IAS	*101*	*Freshman Orientation*	*1*
IAS	*110*	*Freshman Seminar*	*3*
HPR	*100*	*Fitness for Life*	*1*

Interterm Term

REL	*210*	*Bible Literature II*	*3*

Spring Term

BUA	*231*	*Principles of Marketing*	*3*
ECO	*210*	*Basic Economics*	*2*
SYS	*200*	*Basic Systems*	*4*
POS	*100*	*American Politics*	*3*
XXX	*xxx*	*Elective*	*3*

Year Two

Fall Term

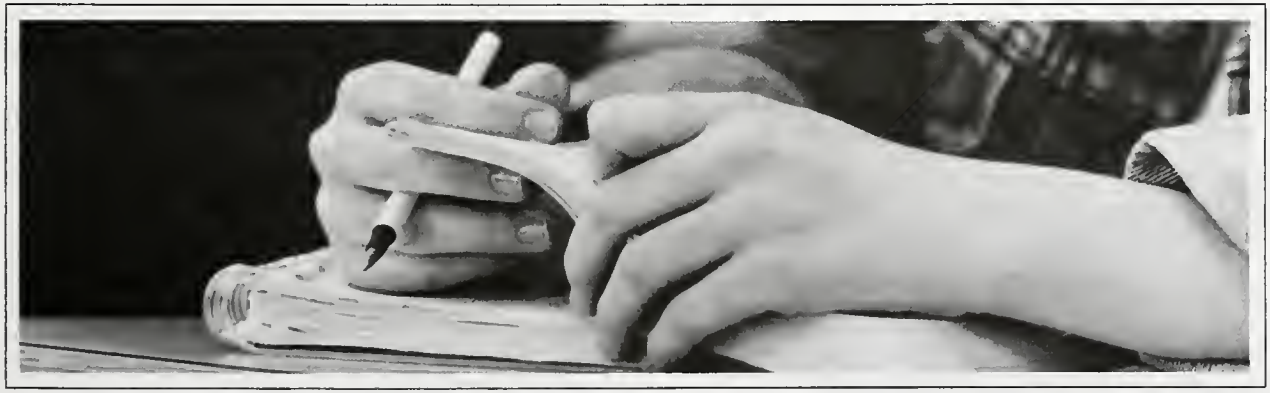
ECO	*211*	*Principles of Macroeconomics*	*3*
ACC	*241*	*Fundamentals of Accounting*	*3*
BUA	*352*	*Principles of Management*	*3*
NAS	*240*	*Introduction to Statistics*	*4*
XXX	*xxx*	*Elective*	*3*

Interterm Term

HUM	*230*	*Fine Arts*	*4*

Spring Term

ECO	*210*	*Principles of Microeconomics*	*3*
ACC	*242*	*Fund of Accounting II*	*3*
BUA	*311*	*Business Law*	*3*
COS	*110*	*Business Computer Systems or*	*3*
COS	*120*	*Intro Computer Science*	*4*
XXX	*xxx*	*Elective*	*3*



Accounting

ACC 241 **3 hours**
Fundamentals of Accounting I

An introduction to the language of business. Financial transactions are analyzed, recorded, summarized, and reported in a meaningful manner to management. Also studied are basic financial statements and the various accounting and internal control procedures for recording and protecting assets. *Offered Fall semester only.*

ACC 242 **3 hours**
Fundamentals of Accounting II

A continuation of Accounting 241. Accounting problems and procedures pertaining to partnerships and corporations are studied. Also studied are various accounting procedures and reports used by management in acquiring fixed assets, budgeting and controlling manufacturing and departmental operations, reporting financial conditions, and analyzing the results of operations. *Prerequisite: ACC 241. Offered Spring semester only.*

ACC 301 **3 hours**
Cost Accounting I

A study of the nature of costs and their importance in all types of organizations: manufacturing, service, and non-profit. Topics include collection and allocation of costs to products and processes; planning, budgeting and control reports; responsibility accounting; and other management analyses and reports. *Prerequisite: ACC 242. Offered Fall semester only.*

ACC 302 **3 hours**
Cost Accounting II

A continuation of Accounting 301. This course covers budgeting and control of operations, capital expenditures and cash flow; standard costs and variance analysis; direct costing; and profitability analysis. ACC 302 may be taken by business administration majors as a stand-alone cost accounting course. *Prerequisite: ACC 301 or 242 and permission of the instructor. Offered Spring semester only.*

ACC 321 **2 hours**
EDP Accounting Controls

Accounting systems and controls in a computer environment are studied. Emphasis is placed on controls for use in and around computers. Specific areas studied include completeness and accuracy of inputs, processing, file maintenance, controls over use of and changes in programs, confidentiality, abuse, security, and advanced systems. *Prerequisites: ACC 242, COS 110 or 120. Offered Fall semester only.*

ACC 341 **3 hours**
Intermediate Accounting I

A detailed study of the theory and procedures used by accountants in recording and valuing assets, and the resulting effect on profits. Emphasis is placed on current issues in accounting theory and practice in both Intermediate Accounting Courses. *Prerequisite: ACC 242. Offered Fall semester only.*

ACC 342 **3 hours**
Intermediate Accounting II

A continuation of Accounting 341. A study of the theory and procedures used by accountants in recording and valuing liabilities and capital accounts. Special emphasis is placed on the preparation and interpretation of balance sheets, income statements, and statements of changes in financial position. *Prerequisites: ACC 341 or permission of the instructor. Offered Spring semester only.*

ACC 360 **1–4 hours**
Independent Study

ACC 370 **1–4 hours**
Selected Topics

ACC 393 **4 hours**
Practicum

Prerequisites: 15 accounting hours (and SYS 200 for majors pursuing a systems concentration.

ACC 405 **3 hours**
Auditing

A study of how professional auditors serve the public, stockholders, and management by impartially examining the accounting records and financial statements of enterprises. Topics studied include standards, ethics of the profession, internal control procedures, and the nature of the audit evidence. *Prerequisites: ACC 342 or permission of the instructor. Offered Fall semester only.*

ACC 416 **3 hours**
Advanced Accounting

A study of the more complex issues in accounting for partnerships, consolidated financial statements, and multi-national and not-for-profit enterprises. This course includes interim and financial reporting and coverage of current regulations and pronouncements pertaining to the profession. *Prerequisites: ACC 342 or permission of the instructor. Offered Spring semester only.*

ACC 442 **3 hours**
Federal Income Taxes

A study of the effect of federal income tax laws and regulations on individuals, businesses, and other taxable entities. This course includes discussion of current issues and various legal methods of tax reduction and savings. *Prerequisite: ACC 242. Offered Fall semester only.*

ACC 458 **3 hours**
CPA Problems

A rigorous review of the topics covered by the Uniform CPA Examination, supplemented with practice in answering previous examination problems and questions. *Prerequisites: BUA 311 and 21 hours of accounting, or permission of the instructor. Offered spring semester only.*

IAS 493 **4 hours.**
Senior Seminar

Offered Interterm only.

Business Administration

BUA 231 **3 hours**
Principles of Marketing

A study of the different fields involved in understanding the modern marketing system in today's business environment. Topics include: the nature of the market itself, types of products and services, product planning, life cycles, branding/labeling, pricing, and promotion. Special emphasis is given to distribution.

BUA 311 **3 hours**
Business Law

A course designed to assist the student in acquiring knowledge of business law. It includes discussion of the nature, origin, and kinds of law as they have evolved into the area of commercial transactions concerning personal property (Uniform Commercial Code). This knowledge is then integrated with training in the discernment of important legal points involved in various business situations and application of pertinent principles of the law thereto. Topics include contracts, agencies, commercial paper, partnerships, corporations, and real property. *Junior status preferred.*

BUA 312 **3 hours**
Sales

A study of the psychological steps involved in making a sale in both industrial and consumer markets, the techniques and philosophies of personal selling, and the social and economic impact of the salesperson's role in the dynamic field of business enterprise. The course concludes with the student presenting an actual sales demonstration in class. *Prerequisite: BUA 231. Offered Spring semester only.*

BUA 313 **3 hours**
Retailing

To interest the student in the creative and challenging area of retailing as a profession either as the owner of a business or as a potential manager for large retailing concerns. Subject matters to be covered are kinds of stores, franchising, consumer behavior, selecting the proper building, merchandise planning and buying, pricing, physical handling of goods, and retail promotion. *Prerequisite: BUA 231. Offered Fall semester only.*

BUA 315 **3 hours**
Current Marketing Topics

A field study of actual business operations, with emphasis on the marketing function. The course involves current readings and numerous trips to a variety of business organizations. Tours and discussions integrate classroom theory and actual practice. *Prerequisite: BUA 231. Offered Summer Session I only.*

BUA 352 **3 hours**
Principles of Management

A course designed to thoroughly acquaint students with the theories, principles, and practical applications of management (planning, organizing, staffing, leading, and controlling). Most principles are universally applicable to all types of business and other organizations. Relevancy of course material to current, real-life situations is emphasized. *Junior status preferred. Offered Fall semester only.*

BUA 360 **1–4 hours**
Independent Study

BUA 361 **3 hours**
Corporate Finance

A study of methods used in the evaluation of financing and investment alternatives and funds management. The course integrates basic accounting with financial analytical techniques. Areas of emphasis include sources of financing, cash flow analysis, working capital management, capital budgeting, net present value, cost of capital and long-term debt and capital structures. *Prerequisite: ACC 241, 242. Offered Fall semester only.*

BUA 362 **3 hours**
Human Resources Management

A study of the role and functions of the personnel department of an organization, with an up-to-date examination of the principles, poli-

cies, and problems of modern human resources management. Topics include employee relations, job analysis, compensation structures, recruitment practices, training/promotion/transfer/release, performance evaluation, discipline and management-union relationships. *Prerequisite: BUA 352. Offered Spring semester only.*

BUA 370 **1–4 hours**
Selected Topics

BUA 375 **3 hours**
International Business

In in-depth examination of business practices in other countries, leading to a better understanding of how to treat people in other cultural areas as trading partners, investors, and host countries. *Prerequisite: BUA 231. Offered Fall semester only.*

BUA 380 **3 hours**
International Marketing

A study of the factors involved in marketing products and services to other nations. Includes concentration on finance, transportation, distribution, organization, and advertising. Class projects are assigned. *Prerequisite: BUA 231. Offered Spring semester only.*

BUA 393 **4 hours**
Practicum

Prerequisites: lower division business core requirements (and SYS 200 for majors pursuing a systems concentration), and BUA 352.

BUA 412 **3 hours**
Advertising

A study of the role of advertising in today's business environment. Course covers how advertising affects our lives as potential buyers, pre-advertising research, advertising agencies, selection of proper media and communication systems, and the creation of an over-all advertising campaign. Instruction includes in-class group presentations of each of the six major media forms used by most organizations. *Prerequisite: BUA 231. Offered Spring semester only.*

BUA 420 **3 hours**
Production and Operations Management

A study of operations management related to production of goods and services. Topics include: product design, capital investment, facilities and equipment, maintenance, work methods and measurement, safety and health, production planning and control, materials management, project management, and quality assurance. Current issues such as energy and productivity are discussed. Basic quantitative methods are introduced. *Prerequisite: BUA 352*

BUA 428 **3 hours**
Money and Banking

A variety of practical banking topics are covered including: a review of the development of the banking system and the corresponding evolution of money and the demand deposit system; and an overview of non-bank financial intermediaries and their role in the present economy. *Prerequisites: BUA 361, ECO 211, 212. Offered Spring semester only.*

BUA 430 **3 hours**
Investments

A course designed to give the student a basic familiarity with practical investment strategies and terminology from both an institutional and individual perspective. Discussion includes stock, bond, commodity, and option markets, as well as other investment alternatives. Heavy emphasis is given to current developments. *Prerequisite: BUA 361. Offered Spring semester only.*

BUA 452 **3 hours**
Strategic Management

An advanced course dealing with integrative issues in management, encompassing long range and short term objectives, planned and pursued in breadth and depth in an ever-changing environment. *Prerequisites: ECO 211, ACC 242, BUA 352. Offered Spring semester only.*

BUA 453 **4 hours**
Free Enterprise Laboratory

DA "living laboratory in management", in which students manage a real business (retailing, manufacturing or consulting). Classroom training is applied and students experience the challenges, problems, frustrations and satisfactions of being entrepreneurs in our free enterprise society. *Prerequisites: ECO 211, ACC 242, BUA 352 and junior or senior standing.*

IAS 493 **4 hours**
Senior Seminar

Economics

ECO 210 **2 hours**
Basic Economics

The basics of economics including scarcity and choice, opportunity, costs, specialization and trade, supply and demand, inflation and unemployment, macroeconomic policy and comparative economic systems. *Offered Spring semester and Interterm only.*

ECO 211 **3 hours**
Principles of Macroeconomics

Introduction to economics emphasizing an understanding of how the U.S. economy works. Topics studied include: how private markets work, how banks create money, determination of gross national product and income, economic indicators, and federal monetary and fiscal policies for influencing employment and price levels. *Prerequisite: ECO 210. Offered Fall semester only.*

ECO 212 **3 hours**
Principles of Microeconomics

A continuation of the introduction to economics started in ECO 210 and 211 emphasizing decision-making by individual consumers and producers. *Prerquisite: ECO 211 or permission of instructor. Offered Spring semester only.*

ECO 321 **3 hours**
Government Finance

Analysis of public expenditure and taxation programs and of the public choice process. Social Security, Food Stamps, unemployment insurance and Medicare programs are analyzed. Arguments for and against income redistribution are discussed. Tax analysis focuses on the Federal Income Tax. *Prerequisites: ECO 211, 212. Offered Spring semester only.*

ECO 331 **3 hours**
Managerial Economics

Applications of microeconomics to business decision-making; intermediate level treatment of microeconomic theory; and approaches to empirical estimation of demand and cost curves. Optimal business decision strategies in production, pricing and purchasing. *Prerequisites: ECO 211, 212; MAT 151 or 140; NAS 240. Offered alternate summers based on demand.*

ECO 332 **3 hours**
Business Cycles and Forecasting

Applications of macroeconomics to understanding and predicting business conditions; intermediate level analysis of factors determining GNP, unemployment, and inflation in the U.S.; study of business cycles and factors causing them; approaches to forecasting macroeconomic activity. *Prerequisites: ECO 211, 212; COS 110 or 120; NAS 240. Offered alternate summers based on demand.*

ECO 360 **1–4 hours**
Independent Study

ECO 370 **1–4 hours**
Selected Topics

ECO 393 **4 hours**
Practicum

ECO 411 **3 hours**
International Economics

Analysis of the economic effects of, and the arguments for and against international trade and trade restrictions. Causes and effects of changes in foreign exchange rates and balance of payments are analyzed. The international monetary system and institutions are discussed. *Prerequisites: ECO 211, 212. Offered Fall semester only.*

ECO 442 **3 hours**
Economic Development

A study of the economic growth and growth potential of less-developed countries (LDCS). Historical development patterns of more developed countries and various theories of economic growth are studied. Policies for encouraging growth are discussed. Each student does a major research project on one particular LDC.*Prerequisites: ECO 211, 212. Offered Spring semester only.*

ECO 451 **4 hours**
Comparative Economic Systems

A study of the economic systems of countries such as the USSR, China, Japan, France, Sweden and Yugoslavia. Each student does a major research project on an additional country whose economic system is different from the U.S. Economic systems are studied in relationship to each country's heritage, political system, religion and culture. *Prerequisites: ECO 211, 212. Offered Fall semester only.*

ECO 452 **3 hours**
Private Enterprise & Public Policy

Emphasis on imperfectly competitive product markets and government policies toward them. Use of anti-trust laws, direct government regulations of public utilities, and public enterprise alternatives to improve resource allocation are studied. Implications of the trend toward deregulation in the communications and transportation industries are considered. Other government regulations affecting business such as health, safety, and environmental rules are included as time permits. *Prerequisites: ECO 211, 212. Offered alternate Interterms only.*

IAS 493 **4 hours**
Senior Seminar

CHEMISTRY

Head, Professor Burden; Associate Professors Hammond, Kroll

The Chemistry Department at Taylor University provides students with high quality training in chemistry while providing opportunities for meaningful spiritual and interpersonal experiences which will enable them to move successfully into the next phase of their professional training or the career of their choice.

A chemistry student can follow any one of the following tracks within the chemistry program:

Bachelor of Arts in Chemistry

A regular 44-hour chemistry major including a foreign language and a broad range of electives. This track is suitable for students wishing to enter either graduate school or the chemical industry.

Bachelor of Arts in Chemistry/Pre-medicine

A chemistry pre-medical major with 36 hours of chemistry, a foreign language and an appropriate number of courses in biology to prepare for medical school. See "Pre-Medical Program" for a typical schedule.

Bachelor of Science in Chemistry/Education

A program designed for students wishing to achieve certification to teach chemistry at the secondary level.

Bachelor of Science in Chemistry/Systems

A chemistry major with 44 hours of chemistry accompanied by a core of systems and computer science courses especially attractive to students planning to enter either graduate school or the chemical industry.

Bachelor of Science in Chemistry/Pre-medicine/Systems

A chemistry program with 44 hours of chemistry suitable for entry either into medical school, graduate school, or the chemical industry. This track requires some summer courses in addition to full loads during the academic year.

Bachelor of Science in Chemistry/ Environmental Science

A chemistry major with 44 hours of chemistry accompanied by a core of environmental science courses and appropriate for students planning to enter graduate school or pursue careers in environmental monitoring, planning, or policy making.

A chemistry major (except chemistry/pre-medicine and chemistry/education) consists of 44 hours of chemistry and must include CHE 201, 202, 301, 302, 311, 312, 422, 431, 431L, 432, 432L, and IAS 493. Required related courses are MAT 151 and 230; PHY 211, 212. It is strongly recommended that chemistry majors have MAT 240, 352, and 431, and at least one course in computer science. A reading knowledge of German or French (usually interpreted as two years of college instruction) is also recommended for a chemistry major. PHY 331 and COS 330 are strongly recommended for the chemistry/systems track.

A chemistry/pre-medical major consists of 36 hours of chemistry and must include CHE 201, 202, 301, 302, 311, 312, 431, and IAS 493. See the Pre-Professional course section for a suggested schedule of courses. For chemistry/education, see schedule published by Education Department.

NAS 480 is recommended for all majors in their junior or senior year.

CHE 100 — 4 hours
Chemistry for Living

A course designed for students who have little or no background in chemistry. Particularly suited for general education students. An effort is made to make students aware of the chemistry within themselves and in their natural and man-made environment. A framework is presented in which personal, social and political decisions that involve scientific matters can be made. Basic concepts of chemistry are presented and serve as a foundation for this framework. Three hours lecture and one three-hour laboratory per week. Recommended to meet general education laboratory physical science requirement. *No prerequisite, although high school algebra is recommended. Offered Fall and Spring semesters.*

CHE 201, 202 — 5 hours
General Inorganic Chemistry

A course designed to meet the needs of the student planning a science-oriented career. Presents an introduction to the modern concepts of atomic structure, chemical bonding, and the structure and properties of matter. Elementary treatments of thermochemistry, thermodynamics, and chemical kinetics are included. Introductory experiences in qualitative and quantitative analysis are provided in the second term.

Section A is strongly recommended for all chemistry majors and for majors in *any* of the natural sciences. Each section meets for four hours lecture and three hours laboratory per week.

CHE 301 — 4 hours
Analytical Chemistry I

An introduction to modern theories and methods used in chemical separations and quantitative determinations. The laboratory includes gravimetric and volumetric (acid-base, precipitation, redox, complex forming) titrations. Lecture three hours per week and three hours laboratory per week. *Prerequisite: CHE 202. Offered Fall semester of odd years only.*

CHE 302 — 4 hours
Analytical Chemistry II

A continuation of Chemistry 301 in which instrumental methods of analysis are emphasized. Topics include the general principles underlying instrumental methods and laboratory experiences in spectrophotometry (u.v.-visible, atomic absorption, flame photometry), electrochemistry and chromatography. Lecture three hours per week and three hours laboratory per week. *Prerequisite: CHE 301 or permission of instructor. Offered Spring semester of even years only.*

CHE 311, 312 — 5 hours
Organic Chemistry

A study of the chemistry of carbon compounds. The methods of preparation, the distinctive characteristics and reactions of the various types of aliphatic and carbonyl compounds are studied the first term. In the second term a similar study is made of the aromatic compounds with an introduction to special classes of compounds, such as the proteins, terpenes, alkaloids, and dyes. The laboratory work consists of preparation of various types of organic compounds, a study of their distinctive reactions, an introduction to qualitative organic analysis and involvement in a small group research project. Four hours lecture and three hours laboratory per week. *Prerequisites: CHE 201, 202.*

CHE 320 **4 hours**
Environmental Chemistry

A course which emphasizes principles and analysis of chemical movement and distribution in natural environments. Sampling and analytical methods are included for water, soil, and air. Experimental work is conducted both in natural habitats and the laboratory. *Prerequisites: One year of general chemistry and one semester of either organic or biochemistry. Offered at AuSable Institute, Summer only.*

CHE 360 **1–4 hours**
Independent Study

CHE 370 **1–4 hours**
Selected Topics

CHE 393 **1–4 hours**
Practium

CHE 411 **4 hours**
Biochemistry

An introduction to the principles of biochemistry. This course is designed for chemistry and biology majors with a background in organic chemistry. Conformation and biosynthesis of macromolecules, bioenergetics, molecular genetics, and techniques of separation and analysis are studied. Three hours lecture and three hours laboratory per week. *Prerequisite: CHE 312 or consent of instructor with a biology course being strongly recommended. Offered Spring semester of odd years only.*

CHE 422 **4 hours**
Advanced Laboratory

This course emphasizes advanced laboratory techniques in analytical, inorganic and biochemistry. Experiences are chosen to supplement the previous background and interests of the students enrolled. Concepts emphasized typically are chosen from among the following: Statistical design of experiments, advanced chromatographic techniques, techniques in synthesizing and characterizing organo-metallic and inorganic compounds, techniques involved in recombinant DNA studies and other advanced biochemical techniques. One hour lecture and six hours of laboratory per week. *Pre/Co-requisites: CHE 302, 312, 431, or permission of the instructor. Offered Spring semester of odd years only.*

CHE 431 **3 hours**
Physical Chemistry

An introduction to the kinetic-molecular theory of gases, the principles of thermodynamics, solutions, electrochemistry, and chemical kinetics. The course is designed for chemistry and physics majors. *Prerequisites: CHE 201, 202; PHY 211, 212; and MAT 151, 230. Offered Fall semester of even years only.*

CHE 431L **1 or 2 hours**
Physical Chemistry

A laboratory course which includes vacuum techniques, thermometry and thermoregulation, calorimetry, physical characterization of solutions and optical techniques. Students opting for two hours apply these techniques to a project. Three to six hours of laboratory per week. *Offered Fall semester of even years only.*

CHE 432 **3 hours**
Physical Chemistry

Emphasis on elementary principles of quantum mechanics, molecular structure, spectroscopy and photochemistry. The course is designed for chemistry and physics majors. Three hours lecture per week. *Prerequisites: CHE 201, 202; PHY 211, 212, and MAT 151, 230 with MAT 240, 352, and 431 strongly recommended. Offered Spring semester of odd years only.*

CHE 432L **1 or 2 hours**
Physical Chemistry

Same content as CHE 431L. Students who have taken CHE 431L for one hour credit do a project in CHE 432L. No student may have more than two hours total credit from CHE 431L and CHE 432L. Three to six hours laboratory per week. *Offered Spring semester of odd years only.*

CHE 450 **1–4 hours**
Directed Research

IAS 493 **4 hours**
Senior Seminar

COMMUNICATION ARTS

Head, Professor D. Jackson; Professors Hubbard, Rousselow; Associate Professors Walker, C. Kirkpatrick

Requirements for the four majors offered by the Communication Arts Department are designed to help students acquire the communication knowledge and skills needed for a variety of Christian ministries as well as careers in television, radio, print media, business, public relations, theatre, teaching,

government and law. Media-related courses develop technical skills, but give equal emphasis to message content, audience analysis, and the ethical use of media in society. Participation in theatre is seen as an opportunity to increase understanding of the human condition, expand awareness of human need, offer creative activity for the development of expressive gifts, and provide a means of articulating a Christian world and life view.

Students may select one of four majors. Each of the first three majors may be combined with a minor from within the department, a second major or minor from a different department, a concentration in Environmental Science or each may be used to earn a Bachelor of Science (BS) degree when combined with Systems or Environmental Science.

I. Bachelor of Arts Degree in Communication Studies (CAS)

This major emphasizes communication theory and skills (interpersonal, public speaking, discussion, debate, persuasion), and may be used to prepare for careers which have communication knowledge and skills as major requirements. A total of 40–43 hours is required, including CAC 126, 226, 326, CAS 110, 120, 393 (or CAS 360), a combined total of three courses selected from Theatre Arts and Mass Communication, five additional Communication Studies courses (CAS), a minimum of one recommended support elective course, and the foreign language requirements.

II. Bachelor of Arts Degree in Mass Communication (CAM)

Core courses in radio, television, and print media are used in this major to prepare students for media-related careers, Christian ministries, and public relations. A total of 48 credit hours is required, including CAC 126, 226, 326, CAS 110, 120; CAM 150, 241, 250, 320, 393, a combined total of three courses selected from Theatre Arts and Communication Studies, four additional CAM elective courses and the foreign language requirements. Students are required to work with campus media a minimum of three semesters and are encouraged to choose additional electives in psychology, political science, art, business, sociology, and history.

III. Bachelor of Arts Degree in Theatre Arts (CAT)

Course sequences for theatre majors offer training in all basic phases of theatre production. A total of 40–42 credit hours is required, including CAC 126, 226, 326, CAS 110, 120; CAT 200, 212, 393 (or CAT 360), 402, 432, two of the following (CAT 301, 362, 341), a combined total of three courses selected from Communication Studies and Mass Communication, and the foreign language requirements. Students are required to participate in a minimum of one theatre production per year. Recommended electives include ENG 230, 361, 362; PHI 201, 262, 342; and REL 262.

IV. Bachelor of Science Degree in Communication Arts Education

The curriculum for the Communication Arts Bachelor of Science in Education degree is designed for students who want to be certified to teach Communication Arts (speech, theatre, radio, and television) in secondary schools. A total of 47 credit hours is required, including CAC 126, 226, 326, CAS 110, 120, 231, 331, 342, 372; CAT 200, three of the following (CAT 212, 341, 362, or 432), CAM 250, 382, and 392. Suggested electives include ENG 312, 361, and 362. All education majors are encouraged to select a second teaching area (minor).

Communication Arts Core Courses

CAC 126 **2 hours**
Communication Arts Seminar I: Communication Theory

Explores definitions and models of communication from the point of view of the various dimensions of the discipline: communication theory, theatre, and mass communication.

CAC 226 **2 hours**
Communication Arts Seminar II: Careers

Focuses upon the question "What can I do with this major?" by increasing students' awareness of careers which require the skills and knowledge developed by the communicative arts.

CAC 326 **2 hours**
Communication Arts Seminar III: Artistic Applications

Explores historic, traditional, and contemporary aesthetic theory and uses a case study method to explore basic ethical issues in the fields of theatre, mass communication and communication theory.

IAS 493 **4 hours**
Senior Seminar

Explores historic, traditional and contemporary approaches to critical methodology in theatre, mass communication, and communication theory.

Communication Studies Courses

CAS 110 **2 hours**
Public Speaking

Concentrates on the development of public speaking skills, including audience analysis, library research, organization, the use of evidence to support a point of view, delivery, and listening.

CAS 120 **2 hours**
Interpersonal Communication

The study of self-esteem, empathic listening, emotion, language, nonverbal behavior, conflict, and ethics in interpersonal relationships.

CAS 201 **3 hours**
Corporate Communication

The acquisition and application of communication skills used in business and industry.

CAS 231 **3 hours**
Voice and Articulation

A study of functional speech problems with emphasis on diagnostic and remedial methods for improvement. The International Phonetic Alphabet is taught as an aid to improving speech skills. *Offered Fall semester of even years only.*

CAS 331 **3 hours**
Communication for Decision-Making

A study of discussion and debate as tools for rational decision-making. Includes practical instruction in discussion leadership and educational debate. *Offered Fall semester of odd years only.*

CAS 340 **3 hours**
Intercultural Communication

The study of the complex process of intercultural communication. The course seeks to create an awareness of culture-bound assumptions and ways to communicate more effectively with persons from other cultures.

CAS 342 **2 hours**
Speech Pathology for the Classroom

The causes and treatment of pathological and functional speech and hearing disorders. Course content and structure are designed to equip elementary, special education, and secondary teachers to help students correct speech problems and to provide classroom support for speech therapists.

CAS 360 **1–4 hours**
Independent Study

CAS 370 **1–4 hours**
Selected Topics

Courses offered on topics of special interest.

CAS 372 **3 hours**
Communication for Change

A study of communication as an agent for change in intrapersonal, interpersonal, and larger social contexts. Focuses primarily upon the skills, methods, and ethics of persuasion.

CAS 380 **3 hours**
Advanced Interpersonal Communication

Advanced Interpersonal Communication theory and skill development, with special focus on empathic listening. *Prerequisite CAS 120.*

CAS 390 **1–2 hours**
Media Laboratory

Credit is given to students filling highest leadership positions on the Echo and the Ilium, and the WTUC campus radio station. Total maximum credit six hours. *Prerequisite: Permission of the Communication Arts department head.*

CAS 393 **1–4 hours**
Practicum

CAS 490 **1–2 hours**
Honors

CAS 492 **8–16 hours**
Internship

Professional semester of supervised internship in a work setting related to the major field of study. *Prerequisites: Completion of departmental core and major core courses and approval of the department faculty.*

Mass Communication Courses

CAM 150 **2 hours**
Basic Reporting for the Media

A beginning course in covering beats, reporting and writing news through the use of an electronic journalism laboratory. *Prerequisite: Eng. 110 or Eng. 111.*

CAM 241 **3 hours**
Introduction to Radio and Television

A survey of broadcasting including social aspects, growth of American radio and television, networks and stations, advertisers and agencies, and other broadcasting areas. Exposure to live radio microphone and television camera situations and basic studio equipment and production techniques are incorporated. *Offered Fall semester only.*

CAM 250 **4 hours**
Mass Media

Examines the role of mass media in society today and their impact upon such areas as education, religion, business, and politics. This course includes print media, radio, television, and film. *Prerequisite: ENG 110 or 111.*

CAM 300 **1–2 Hours**
Media Laboratory

Two hours of credit may be earned per semester by the Echo and Ilium Editors and WTUC Radio Station Manager. One hour of credit may be earned per semester by Echo and Ilium Assistant Editors, Section Editors, Business Managers, WTUC Radio Program Director, Operations Director, News Director, and other media positions approved by the faculty advisor and CA Department Head.

A maximum of six hours may count toward graduation. Media Laboratory credit hours do not meet the major requirements in the Communication Arts Department. Prerequisite: Permission of the Communication Arts Department Head.

CAM 320 **4 hours**
Newswriting

Emphasis on reporting and coverage of meetings, speeches, government, religion, and sports. Practice in the interview technique and in interpretative reporting is provided. *Prerequisites: ENG 110 or 111; and CAM 150. Offered Fall semester only.*

CAM 332 **3 hours**
Editing and Design

Basic news editing of wire services and local copy, pictures, and headlines. Practice in news make-up and in the editing and design of special magazine sections is provided. *Prerequisite: CAM 320. Offered Spring semester of even years only.*

CAM 343 **3 hours**
Feature Writing

The writing of news, background, human interest, and historical features for the print media. *Prerequisite: CAM 320. Offered Spring semester of odd years only.*

CAM 350 **4 hours**
Writing for Advertising

A writing course for the preparation of newspaper, magazine, and television advertising copy and commercials. Designed for Communication Arts majors but open to others as enrollment permits. *Not open to freshmen.*

CAM 352 **3 hours**
History and Criticism of Film

A survey of film history, artistic growth, and early influences and techniques of film-making. Critical principles for viewing films are emphasized. *Offered Spring semester of odd years only.*

CAM 360 **1–4 hours**
Independent Study

CAM 370 **1–4 hours**
Selected Topics

Courses offered on topics of special interest.

CAM 382 **3 hours**
Television Production

Theory and production aspects of television, including application of production principles in actual directing situations. *Prerequisite: CAM 241 or permission of instructor. Offered Spring semester only.*

CAM 392 **3 hours**
Radio Production

Theory and production aspects of radio, including radio personality development and the application of production principles in a variety of radio programming situations. *Prerequisite: CAM 241 or permission of instructor.*

CAM 393 **1–4 hours**
Practicum

CAM 395 **3 hours**
Broadcast Scriptwriting

Offers training and practice in writing scripts for radio and television; including scripting forms, approaches, and techniques required for the writing of effective scripted material. *Offered Spring semester of even years only.*

CAM 431 **3 hours**
Advanced Television Production

Advanced study and practice of television production and directing, including electronic editing and remote production techniques. *Prerequiste: CAM 382. Offered Fall semester only.*

CAM 442 **3 hours**
Applied Telecommunication Strategies

The integration of television production skills as applied to client-centered projects, industrial and educational television, cablecasting, and computerized editing. *Prerequisite: CAM 431.*

CAM 490 **1–2 hours**
Honors

CAM 492 **8–16 hours**
Internship

Professional semester of supervised internship in a work setting related to the major field of study. *Prerequistes: Completion of departmental core and major core courses and approval of the department faculty.*

Theatre Arts Courses

CAT 200 **3 hours**
Oral Interpretation of Literature

Study and practice of personal-spiritual involvement with literature through the application of basic techniques of literary analysis and oral reading.

CAT 212 **3 hours**
Acting

Study of the theories and principles of acting as an art, approached through a Christian perspective of life and the human situation. Practical application of performance techniques and character development are provided through laboratory theatre experiences. *Corequisite: HPR 200 for Actors. Offered Spring semester only.*

CAT 301 **3 hours**
Advanced Oral Interpretation of Literature

Advanced study and application of the techniques of literary analysis and oral reading. Readers' theatre is emphasized with laboratory experience provided. *Prerequisite: CAT 200 or permission of instructor. Offered Fall semester of odd years only.*

CAT 341 **3 hours**
Stagecraft and Scene Design

Emphasis given to the technical phases of play production including design theory and practice with projects in set construction, lighting, and makeup. Work on theatre productions provides practical experience. *Offered Fall semester of even years only.*

CAT 360 **1–4 hours**
Independent Study

CAT 362 **3 hours**
Religion and Theatre

A study of the distinctions and correlations among secular, religious and "Christian" drama, with particular emphasis placed on religious-literary criticism. *Offered Fall semester of odd years only.*

CAT 370 **1–4 hours**
Selected Topics

CAT 393 **1–4 hours**
Practicum

CAT 402 **3 hours**
Contemporary American Theatre

A study of selected twentieth-century American theatre movements, people, and dramatic literature from 1950 to the present. *Offered Spring semester of even years only.*

CAT 432 **3 hours**
Play Directing

Study of the theories and principles of directing as an art, approached through a Christian perspective of life and the human situation. Emphasis is given to play analysis with practical application provided through laboratory theatre experience. *Prerequisite: CAT 212 or permission of instructor.*

CAT 490 **1–2 hours**
Honors

CAT 492 **8–16 hours**
Internship

Professional semester of supervised internship in a work setting related to the major field of study. *Prerequisites: Completion of departmental core and major core courses and approval of the department faculty.*

IAS 493 **4 hours**
Senior Seminar

COMPUTER SCIENCE

See Information Sciences

ECONOMICS

See Business, Accounting, and Economics

EDUCATION

Head, Professor Jeran; Professors Chapman, Burnworth; Associate Professors Freese, Hess, J. Hodson; Assistant Professors Benbow, Rogers

Introduction

The Division of Education cooperates with other departments to prepare teachers for positions in private and public schools. The division is in a unique position to educate persons for leadership positions in Christian schools, public and private nursery schools; public elementary, junior high/middle, and secondary schools; and for leadership positions related to youth work. Admission to, retention in, and completion of an approved teacher education program at Taylor University is coordinated by the Director of Teacher Education. Students seeking teaching certification may fulfill the requirements while earning either a Bachelor of Arts or Bachelor of Science degree.

Field Experiences

Field experiences with children and youth with strong emphasis on multicultural education are considered a vital part of the preparation of the teacher. Beginning with the first professional education course and continuing through the senior year, such experiences are required for each prospective teacher. The culmination of these

professional experiences occurs during the fall term of the senior year with full-time student teaching. During this final experience a student is expected to assume as much as possible the total responsibilities of a teacher.

Advisement

Students wishing to explore or prepare for the teaching profession should become involved in the teacher education program as early as possible in their college careers. It is advised that initial steps be taken as an entering freshman or as soon as possible after entering Taylor. Upon declaring a major area of study (elementary education or secondary education), the student will be assigned an academic advisor. This academic advisor will continue to advise the student throughout the entire program.

Much of the student's planning may be self-directed, however, by use of the curriculum guide for the chosen area of study. Curriculum guides containing course requirements for all teacher education programs offered at the University may be obtained from the teacher education office.

Transfer of Credit from Other Institutions

Students seeking admission to the Taylor teacher education program through transfer from another institution must meet the standards required of regularly enrolled students. Credits are assessed by the Director of Records. The Director of Teacher Education, after consultation with the appropriate department head, will accept transfer credit when the courses taken are equivalent to requirements on a designated major curriculum guide.

Admission to the Teacher Education Program: Step One

There is a formal admission procedure to the teacher education program. A student is admitted to the program upon completion of an official application form (available in the teacher education office) and favorable action by the Teacher Education Committee. The application should be completed immediately following the first term of a student's sophomore year. Students are formally admitted to the teacher education program after completing three terms of college work, one of which must have been at Taylor. The Teacher Education Committee has established standards which students must meet in order to be admitted to and remain in the program. Factors encompassed by these standards are scholastic performance, communication skills, and departmental recommendation. Detailed explanations of these standards may be obtained from the teacher education office.

Admission to Supervised Internship (Student Teaching): Step Two

Subsequent to admission to the program, there is a formal admission procedure to student teaching. The application is initiated and facilitated through the office of the Director of Field Experiences and should be prepared and ready for consideration (by the Teacher Education Committee) by the beginning of the sixth term. The factors considered by the Teacher Education committee include: (1) successful completion of prerequisite courses;(2) departmental recommendation;and (3) scholastic performance. Detailed explanations of these standards may be obtained from the teacher education office. Student teaching is a fall term activity; however, student teaching during the spring term of the senior year is available to selected students by special permission of the academic department and the Teacher Education Committee.

TEACHER EDUCATION PROGRAMS

Fields of Study

Curricula which meet the licensing standards of the Indiana Department of Education are listed on the curriculum guides available to each student. Preparation for

standard teaching licenses in the following fields is provided at Taylor:

All Grade Education (K–12)

Art
Music (instrumental, choral and general)
Physical Education

Elementary Education *(first through sixth grades)*

The following minors and endorsements may be added to the elementary license:

Computer endorsement
Kindergarten endorsement
Coaching endorsement
Physical Education minor
Music minor
Special Education minor (educable mentally retarded)
Certificate in Religious Studies (not certified by the state)

Junior High/Middle School Education *(fifth through ninth grades)*

Elementary education majors may add this license in the following areas:

Language Arts
Science
Social Studies
Mathematics

Secondary education majors may add this license in their major field along with areas listed above.

Secondary Education *(majors and minors)*

Art
Communication Arts
English
French
Mathematics
Physical Education
Science
- Biology
- Chemistry
- General Science
- Mathematics
- Physics

Social Studies
- Economics
- Geography
- Government
- Psychology
- Sociology
- U.S. History
- World Civilization

Spanish

Additional Minors & Endorsements

Coaching Endorsement
Computer Endorsement
Special Education-EMR Minor
Health and Safety Minor
Certificate in Religious Studies (not certified by the state)

Elementary Education Major

(See Teacher Education Programs) Thirty-six specified hours constitute the elementary education major. Also included on the elementary education curriculum guide are selected general education courses, directed electives, and professional education courses.

Secondary Education Major

(See Teacher Education Programs) Curriculum guides are available in the areas listed. The student preparing to teach in the secondary schools will select a teaching major. A student is urged to select a second teaching area (minor or endorsement). Included on the secondary edu-

cation curriculum guides are selected general education, subject matter, and professional education courses.

Associate of Arts Degree

In addition to the baccalaureate degree programs maintained by the division, a two-year curriculum in *early childhood education* is offered for people who wish to qualify for leadership positions in day care centers, Headstart and nursery schools. This program blends together a series of liberal arts courses with practical experiences in field centers and professional content to prepare early childhood workers. The program includes four curriculum workshops which integrate the early childhood curriculum in the liberal arts with a multicultural/multiethnic emphasis, experience at field-based centers, and a core curriculum. The student will spend at least three hours weekly in a field-based center (selected day care, nursery school and Headstart facilities).

Special Education Minor

Elementary and secondary education majors may add the special education minor to their certification program. This minor prepares teachers to teach the educable mentally retarded (mildly mentally handicapped). In addition to courses on the major program, the following courses are required:

Elementary	Secondary
EDU 141	EDU 141
EDU 333	EDU 352
EDU 232	EDU 333
EDU 242	EDU 232
EDU 341	EDU 242
	EDU 341
	MAT 201

Students adding the special education minor will complete a part of their student teaching experience in an EMR classroom. The holder of this minor will be eligible to teach the EMR at the basic preparation level of the license.

Education Religious Studies Certificate

An elementary or secondary education student who wishes to be prepared to teach in a Christian school should consider completing the 25-hour Education Religious Studies Certificate. In addition to the 12 hours of general education requirements in this area, students electing this option will complete a minimum of 13 term hours, including a specialized course "Teaching in a Christian School." Application forms are available in the teacher education office.

Certification

All teacher education programs have been designed to meet Indiana certification requirements and have been approved by the State Department of Education. Students who meet graduation requirements and complete an approved teacher education program will be eligible for Indiana certification (license to teach). The Teacher Certification Office is responsible for verifying to the State Department that all requirements for certification have been met, and for processing all applications for certification.

Accreditation

The teacher education programs are approved by the National Council for Accreditation of Teacher Education. The only exceptions are the Spanish major and the special education minor which have not yet been submitted for NCATE approval. All certification curricula are fully accredited by the Indiana Department of Education.

Elementary Education Comprehensive Exam Requirement

All elementary education majors are required to take the "Education in the Elementary School" National Teacher

Examination Specialty test and successfully score 520 or above.

Any elementary education major who does not successfully score 520 or above will be provided the opportuunity to participate in a tutorial guided instruction program under the direction of the Learning Support Center to prepare him/her for retaking the test.

Practicum

A practicum is supervised learning involving first-hand field experience or a project. It is offered primarily during interterm and summer with the consent of a supervising professor and the approval of the division chair. Under certain conditions a practicum may be required to demonstrate readiness for student teaching. In order to receive a grade, the experience or project must be supervised.

EDU 141 **3 hours**
The Exceptional Child

An introduction to the field of special education. The course includes studies in history, trends, and current issues. Activities and reading which will lead to a greater sensitivity to all handicapped people will be pursued. *Offered Fall semester only.*

EDU 150 **3 hours**
Education in America

A study of the historical, philosophical, and sociological foundations of education. The organization and role of the public school, K-12, in a multicultural society is studied. An analytical study of teaching is made, including concepts of teaching and leadership roles. The course includes a study of multicultural and ethnic differences among students and the resulting effect on the teacher's role. Includes field experience lab.

EDU 223 **4 hours**
Supervised Field Experience in Early Childhood Education

A full-time, four-week participation experience in a nursery school, day care center, or Headstart. The student will assume a position of leadership with children under the supervision of qualified early childhood teachers. Students pursuing the AA degree complete this interterm course two times, once in a day care center or Headstart and once in a nursery school. *Prerequisite: EDU 281 or 291.*

EDU 232 **3 hours**
The Mildly Mentally Handicapped: A Psycho-Social and Educational Study

A course which deals exclusively with the mildly mentally handicapped. Emphases are on the social, psychological, and educational considerations. The students are encouraged to develop their own philosophies of teaching in special education. *Prerequisite: EDU 141. Offered Spring semester of even years only.*

EDU 242 **3 hours**
Curriculum and Methods for Teaching the Mildly Mentally Handicapped

A course which discusses and practices educational programs for optimum growth and development of mildly mentally handicapped. Curriculum content and organization of special schools and classes as well as teaching methods and materials are included. *Prerequisite: EDU 141. Offered Spring semester of odd years only.*

EDU 260 **3 hours**
Educational Psychology

The study and application of learning theories and psychological concepts and principles to the teaching-learning process. The teacher's responsibility to handicapped students is explored. Cognitive, affective, and psychomotor aspects of the teaching-learning process are considered. With field experience lab. *Prerequisite: EDU 150.*

EDU 281, 282, 291, 292
Curricular Workshops in Early Childhood Education

Section A is designed for the elementary education major adding a kindergarten endorsement to the certification pattern. The course projects, directed learning activities, supervised field experiences, observations, and grouping for instruction will focus on pattern requirements for the kindergarten classroom.

Section B is designed for the two-year early childhood education degree. The course projects, directed learning activities, supervised field experiences, observations, and grouping for instruction will focus on pattern requirements for the nursery school, day care center, or Headstart.

EDU 281 **3 hours**
Curriculum Workshop in Communication and Environment in the Preschool and Kindergarten

This course deals with the many areas involved in developing positive forms of communication in an early childhood and kindergarten program. Different methods and teaching strategies will be presented dealing with verbal, non-verbal, listening skills, discipline procedures, classroom environment, written forms of communication including evaluation

forms, parent conferences, and observing and participating with young children. Special emphasis will be given to bilingual, multicultural/multiethnic and handicapped. *Offered Fall semester of odd years only.*

EDU 282 **3 hours**
Curriculum Workshop in Language Arts including Reading Readiness and Children's Literature in the Preschool and Kindergarten

Developing a curriculum in language arts for the early childhood and kindergarten programs in public and private elementary and preschools. A variety of teaching strategies will be explored to deal with the areas of language development (including ethnic, cultural and disability awareness), literature of many cultures, and various types of preschool and kindergarten pre-reading programs. Observation of and participation with young children will help the students become aware of the wide range of abilities within the preschool and kindergarten classroom. *Offered Spring semester of even years only.*

EDU 291 **3 hours**
Curriculum Workshop in Social Studies and Religious Education in the Preschool and Kindergarten

Approaches and aspects of a social studies curriculum for an early childhood and kindergarten program. Different facets and modes of teaching about self-concept, disability awareness, home and changing lifestyles, the various types of communities, the world (including the varied ethnic and cultural aspects), and the spiritual needs of the preschool and kindergarten child. Students will observe and participate with young children in the preschool and kindergarten classroom. *Offered Fall semester of even years only.*

EDU 292 **3 hours**
Curriculum Workshops in Mathematics and Science in the Preschool and Kindergarten

Developing a curriculum in science and mathematics for a preschool or kindergarten program. A variety of different methods of teaching "sciencing" including the past, present and future areas of the child's immediate and world environment, meaningful and appropriate mathematics skills, including number readiness. Students will observe and participate with preschool and kindergarten children. *Offered Spring semester of odd years only.*

EDU 310 **2 hours**
Discipline and Classroom Management

This course is designed to give the student a variety of techniques for handling discipline. Case studies are examined with the objective of reaching practical conclusions. Several widely-accepted theories of discipline and classroom management are studied, with one theory selected by the student for in-depth research. *Offered Interterm only.*

EDU 312 **2–4 hours**
Teaching in Secondary, Junior High/Middle Schools—Special Methods

A special junior level methods course taught by specialists in the student's major department. All aspects of planning, teaching and evaluating within a specific subject area are discussed. *Prerequisites: EDU 150 and 260.*

EDU 322 **3 hours**
Reading for Junior High/Middle School and Secondary Teachers

Practical procedures for developing effective reading skills at the junior high/middle and secondary school levels. Attention will center on understanding the relationships between the processes of reading and learning of content, planning to meet the total range of student reading needs, methods and materials to enhance advanced comprehension, and study skills in a multicultural society. With tutoring. Students are urged to complete this course before student teaching.

EDU 332 **3 hours**
The Junior High/Middle School

A study of the philosophy, development, and organization of middle schools and junior high schools. Examines through readings, seminars, field experiences, and classroom investigations the purpose, curriculum, and instructional strategies for effective teaching in junior high/middle schools. This course provides prospective teachers with knowledge and understanding of the child, the school, and practical teaching activities. *Prerequisites: EDU 150, 260. Offered Spring semester only.*

EDU 333 **4 hours**
Teaching the Exceptional Child: Field Experience in Mildly Mentally Handicapped

For students completing the minor in special education. In-depth observation/participation experiences with exceptional children are completed. Emphases on materials, class organization, curriculum practices, procedures, and teaching techniques used in teaching special education children. Appraisal and evaluation are included. *Prerequisites: EDU 141 or 242 and permission of the instructor. Offered Interterm only.*

EDU 341 **3 hours**
Advanced Methods and Materials for Teaching the Mildly Mentally Handicapped

Methods and media for teaching the mildly mentally handicapped are studied, discussed, and collected. The course also includes study of student assessment, I.E.P. implementation, multi-categorical and resource room models. *Prerequisite: EDU 242. Offered Fall semester of odd years only.*

EDU 342 **3 hours**
Microcomputers in Educational Settings

Review key concepts of learning theory which would have a direct bearing upon using microcomputer software. Make decisions on how specific software, hardware can be incorporated into the classroom. Through hands-on experiences, students will be introduced to the different ways in which computers can be used in educational settings, work on word processing and programming in Logo. *Prerequisite: COS 200 or 220 when applied to computer endorsement, offered Fall semester only. Offered Spring semester for elementary education majors—meets the General Education Computer Literacy Requirement.*

EDU 352 **4 hours**
Teaching Language Arts and Developmental Reading in Elementary Schools

An examination of methods and teaching media used in teaching the language arts in a multicultural society. The foundations of reading skills instruction and the development of reading skills in the subject content areas are surveyed. Developmental reading is a major topic of consideration. Resources for teaching language arts and reading located in the Zondervan Library are studied, demonstrated, and evaluated. *Prerequisites: EDU 150 and 260. Taught concurrently with EDU 362. Offered Spring semester only.*

EDU 360 **1–4 hours**
Independent Study

EDU 362 **4 hours**
Teaching Science and Social Studies in Elementary Schools

An exploration of the methods and materials of teaching science and the social studies. Development of units for teaching, construction of devices to be utilized in teaching, demonstration teaching, and work in the Learning Resource Center are emphasized. A specialist in audio-visual aids works with the students in creatively developing teaching media. Public school and college personnel cooperate in providing, supervising, and evaluating teaching experiences used with elementary school children in outdoor environmental education. *Prerequisites: EDU 150, 260. Taught concurrently with EDU 352. Offered Spring semester only.*

EDU 370 **1–4 hours**
Selected Topics

EDU 371 **3 hours**
Organization and Operation of Preschools and Kindergartens

Organizational and administrative skills needed to develop and teach in the preschool or public/private kindergarten. The class will include methods and techniques for screening and evaluating young children, disability awareness and parent education and involvement. Observation and evaluation of actual preschool or kindergarten are obtained through on-site visitation and interviewing teachers of preschools or kindergartens. National, state and local provisions of the Education of all Handicapped Children Act—P.L. 94–142 are discussed. *Offered Fall semester only.*

Section A is designed for the elementary education major adding a kindergarten endorsement to the certification pattern.

Section B is designed for the two-year early childhood education degree.

EDU 372 **3 hours**
Teaching the Young Child

An in-depth look at the qualities needed to become an effective teacher of young children. Study of the physical, emotional, mental, social, and spiritual development of the preschool or kindergarten child. Curriculum development will include music and creative movement, health, nutrition, the special child's needs, and child abuse. Techniques of evaluation and testing will be emphasized. Resource persons, media and research assignments will aid in developing skills and materials needed in teaching the preschool or kindergarten child. *Offered Spring semester only.*

Section A is designed for the elementary education major adding a kindergarten endorsement to the certification pattern.

Section B is designed for the two-year early childhood education degree.

EDU 382 **3 hours**
Teaching in a Christian School

Examines through readings, seminars, field experiences, guest lectures and classroom investigations the theological, historical, philosophical, organizational, curricular, and instructional principles for teaching in a Christian school. *Offered Spring semester of even years only.*

EDU 393 **1–4 hours**
Practicum

EDU 411 **2 hours**
The Teacher in the Secondary Schools

A seminar/general methods course taught in public schools. Topics investigated are general teaching methods, individual and group processes of teaching, professional relations, measurement, media, curriculum development, interdisciplinary learning, values clarification, legal implications, classroom management, and technical skills of teaching. How all of these factors are promoted within the school structure, K–12, is considered. *Corequisite: EDU 431.*

EDU 421 **14 hours**
Supervised Internship in Elementary Schools

Full-time teaching experiences for the intern at two grade levels during the Fall term under the supervision of public and private school and college personnel. Multicultural/multiethnic education placement is required in one of the experiences. The student completing the kindergarten endorsement or the special education minor will spend nine weeks student teaching in an elementary school and seven weeks with children at the endorsement or minor level. *Prerequisites: (a) Approval by the Teacher Education Committee; (b) EDU 150, 210, 260, 352, 362. Corequisite: EDU 441.*

EDU 431 **14 hours**
Supervised Internship in Secondary Schools

Full-time teaching experiences for the intern at two grade levels in two subject areas during the fall term under the supervision of public school and college personnel. *Prerequisites: (a) Approval of the Teacher Education Committee; (b) EDU 150, 210, 260, 312. Corequisite: EDU 411.*

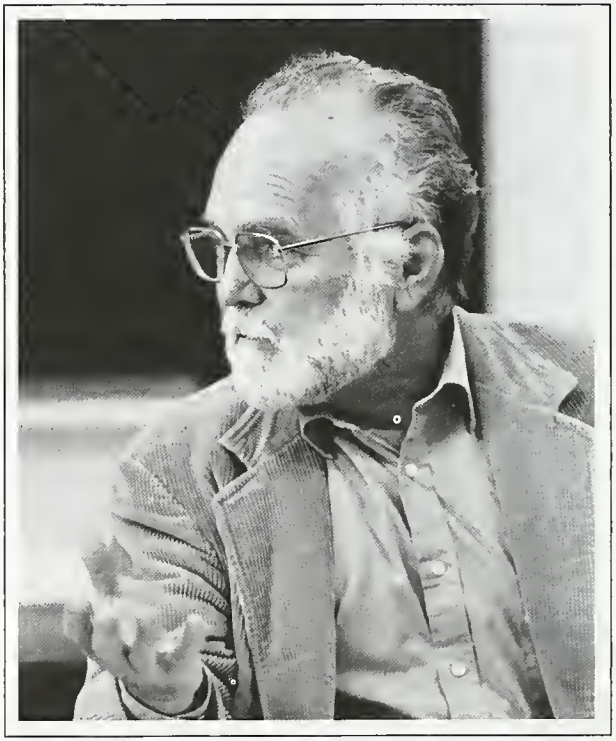
EDU 441 **2 hours**
The Child and the Teacher

A seminar course—taught in student teaching centers—which investigates such topics as professional relations, strategies for remedial reading, legal implications, classroom management, career planning, pupil testing and evaluation, and multicultural/multiethnic differences. *Corequisite: EDU 421.*

EDU 480 **1–4 hours**
Seminar

IAS 493 **4 hours**
Senior Seminar in Elementary Education

A culminating experience drawing together a Christian teacher's philosophy as the teacher works with students, parents, fellow teachers and administrators in the educational setting. The student's preparation in general education, subject matter concentration and professional education becomes a basis for a critical analysis of elementary education curriculum. Corrective and/or diagnostic reading will be the vehicle used to see how well teachers understand pupils and how they learn. Included in the coursework will be seminars and diagnostic work with students to assess reading difficulties. Future teachers will develop corrective plans of action to remediate the problems of students. A laboratory experience with public school children will be a portion of the course. *Offered Interterm; after student teaching.*



ENGLISH

Head, Professor Fry; Professors Baker, Chapman, Swan; Associate Professor Dinse; Assistant Professors Buck and Winger

Experience in writing and reading makes one "exact" and "full," as Francis Bacon observed. The English Department offers courses intended to help students write clearly and effectively, met through

ENG 110 or 111, and to read literature with critical appreciation, met through ENG 230, 240, or 250. All students take courses in expository writing and selected literary masterworks.

The major in English prepares men and women to enter a wide range of careers. Opportunities presently abound in education, law, business, Christian ministry, writing, editing, research, library science, public relations, travel, civil service and administration. The major also prepares those who wish to study English at the graduate level. Additional features of the English program include several attractive opportunities. Creative writers will find a vehicle for their imaginative efforts in *Parnassus*, a literary magazine published each spring semester. The January interterm offers a three-week tour to London, England, in which the study of British literature is combined with visits to important literary and historical sites.

For the Bachelor of Arts degree the English major consists of at least 40 hours in addition to ENG 110 or 111. Required courses are ENG 212, 230, 240, 362; IAS 493; two literature courses before 1900 (ENG 340, 361, 371, 412, 422, 426, 431, 441); and one literature course after 1900 (ENG 363, 364, 444).

For the Bachelor of Science degree leading toward certification to teach English in the secondary school, the major consists of at least 44 hours in addition to ENG 110 or 111. The required courses are ENG 212, 230, 240, 302, 312, 362, CAM 250, IAS 493; two literature courses before 1900 (ENG 340, 361, 371, 412, 422, 426, 431, 441); and one literature course after 1900 (ENG 363, 364, 444).

Students who major in English are urged to take courses in British and American history. They are also encouraged to elect courses in communications, philosophy, and foreign language.

Writing and Language

ENG 100 **2 hours**
Basic English

Intensive review of basic grammar and mechanics. Practice in writing clear sentences, paragraphs, and short prose compositions. Enrollment by assignment. *Offered Fall semester only.*

ENG 110 **4 hours**
Expository Writing

Practice in writing clear and effective prose through several expository modes, including a formal research paper. Brief review of grammar and mechanics. *To be taken during the freshman year.*

ENG 111 **4 hours**
Honors Writing Seminar

A subject-oriented approach to expository writing. Enrollment by invitation to selected freshmen. *Offered Fall semester only.*

ENG 110 or 111 are prerequisites to all other English courses, except for ENG 230, 233, 240, and 250.

ENG 210 **3 hours**
Writing for Teachers

Communications skills for prospective educators. Designed for elementary and secondary majors seeking certification. Not required of English majors or minors.

ENG 212 **4 hours**
Critical Approaches to Literature

Introduction to basic literary analysis with emphasis on informed reading and critical, written response to selections from poetry, fiction, drama, and film. Includes minorities literature. Primarily intended for English majors, but recommended for all students who desire greater reading and writing skills. *Offered Spring semester only.*

CAM 250 **4 hours**
Mass Media

ENG 302 **4 hours**
Linguistics and Grammar

Analysis of the English language with attention to its history, nature, and structure. Prerequisite to student teaching, except with departmental approval. *Offered Spring semester only.*

ENG 312 **3 hours**
Imaginative Writing

Workshop experience in the writing of poetry and fiction. *Prerequisities: ENG 110 or 111. Offered every third semester.*

CAM 320 **4 hours**
Newswriting

CAM 332 **3 hours**
Editing and Design

ENG 333 **3 hours**
Business and Technical Writing

Practice in the forms of writing required in business and industry. *Prerequisites: ENG 110 or 111.*

CAM 343 **3 hours**
Feature Writing

ENG 410 **4 hours**
Advanced Writing Workshop

Intensive practice in selected creative genres. Enrollment with permission of instructor. *Prerequisite: ENG 312. Offered every fifth semester.*

LITERATURE

ENG 230, 233, 240 or 250 are prerequisites to all other literature courses.

ENG 230 **4 hours**
World Masterpieces

A selective survey of the literary achievement of western civilization from antiquity to the present.

ENG 233 **4 hours**
Literary London

A study-tour conducted each January in London, England, combining study of selected major British authors with extensive sight-seeing in London and surrounding counties. Enrollment with instructor's permission. *Offered Interterm only.*

ENG 240 **4 hours**
American Literature

A survey of important works from colonial times to the present.

ENG 250 **4 hours**
British Literature

A selective survey of masterworks from *Beowulf* to the present.

ENG 270 **2 hours**
Children's Literature

A study of the reading interests of children, pre-school through adolescence, in a multicultural society. Story telling and criteria for evaluating and selecting various types of children's books are stressed. With story lab.

ENG 340 **4 hours**
American Romanticism and Realism

A special topics approach to the literature of nineteenth-century and early twentieth-century America. *Offered Spring semester.*

ENG 360 **1–4 hours**
Independent Study

ENG 361 **4 hours**
Western Drama

A selective survey of drama to about 1900. Emphasis on historical development of the theater. *Offered every fifth semester.*

ENG 362 **3 hours**
Shakespeare

Intensive analysis of selected plays and sonnets. Attention is given to the conventions of the Elizabethan and Jacobean theater. *Offered every third semester.*

ENG 363 **4 hours**
Modern Poetry and Drama

A critical study of major poetry and drama from 1900 to 1960. *Offered every fifth semester.*

ENG 364 **3 hours**
Modern Fiction

A critical study of major novels and short fiction from 1900 to 1960. *Offered every fifth semester.*

ENG 370 **1–4 hours**
Selected Topics: Themes and Genres

Examples of courses: Christian Mythic Writers: Lewis, Tolkien, MacDonald, L'Engle; Quests for Faith in Modern Lierature; Innocence and Experience: The Human Fall in Literature; The Literature of the Bible;

Women in Literature; John Milton: The Christian Humanist Tradition; Multicultural and International Literature. *Offered Primarily During Interterm.*

ENG 371 **4 hours**
The Novel

Critical study of major novels through the nineteenth century. *Offered every fifth semester.*

ENG 393 **1–4 hours**
Practicum

ENG 412 **4 hours**
Early English Literature

A selective study of English literature from *Beowulf* through Chaucer and Malory's *Le Morte d'Arthur*. *Offered every fifth semester.*

ENG 422 **4 hours**
Renaissance Authors

A study of representative prose writers and non-dramatic poets of the English Renaissance, such as More, Spenser, Donne, Herbert, and Milton. *Offered every fifth semester.*

ENG 426 **4 hours**
Restoration and Eighteenth-century Authors

A selective study of poets and prose writers from 1660 to 1798, such as Dryden, Pope, Swift, Boswell, and Johnson. *Offered every fifth semester.*

ENG 431 **4 hours**
Romantic Authors

A study of writers from 1798 to 1832, such as Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, and Lamb. Some attention given to representative novelists. *Offered every fifth semester.*

ENG 441 **4 hours**
Victorian Authors

English authors from 1832 to 1901, such as Tennyson, Browning, Arnold, Carlyle, Newman, and Ruskin. Some attention given to representative novelists. *Offered every fifth semester.*

ENG 444 **4 hours**
Contemporary Literature

A study of selected poetry, fiction, and drama, since 1960. *Offered every fifth semester.*

ENG 450 **1–4 hours**
Directed Research

ENG 480 **1–4 hours**
Seminar

ENG 490 **1–2 hours**
Honors

IAS 493 **4 hours**
Senior Seminar

ENVIRONMENTAL SCIENCE

Program Director, Professor Squiers The Environmental Science Program is not a major, but a cognate selected with any major in the University. It offers students the opportunity to augment their liberal arts program with a cluster of interdisciplinary courses designed to provide the knowledge, skills, and conscience necessary for decision making in a complex and rapidly changing world. Courses focusing on global issues and problem solving methodology add depth, utility, and perspective to any major field of study. Students should register for a Bachelor of Arts (with foreign language requirement) or a Bachelor of Science (without foreign language requirement) in the environmental science curriculum as well as in their liberal arts major. Social science majors in Political Science, Sociology, History, and Business/Economics; science majors in Biology, Chemistry, and Computer Science; and students interested in technical missions work are especially encouraged to consider adding Environmental Science to their major.

The following courses are required for completion of the Environmental Science Program:

BIO 231 Environment and Man
SYS 200 Basic Systems
COS 220 Introduction to Computer Science
ECO 210 Basic Economics
GEO 220 Regional Geography

POS 331 Development of Public Policy
PHI 371 Principles of Ethics
ENS Electives—two courses at the 300 level
ENS 383 Environmental Ethics
ENS 402 Problem Solving in Environmental Science

In addition, a practicum in the major field of study is required and *ENG 333 Business and Technical Writing* is strongly recommended. It should be noted that a number of these courses fulfill general education requirements.

Appropriate course substitutions may be made to the above list depending on the student's major and career goals. Permission to make substitutions should be obtained from the program director.

ENS 340 **4 hours**
Global Ecology

An introduction to the analysis of complex global issues. Global actors, their values and policies, and the potential futures they create are investigated in the context of issues such as economic development, energy, food, and population. Global interdependence is stressed. The academic perspective is interdisciplanary and the geographic focus is non-North American. *Prerequisites: BIO 231 and GEO 220 or permission of the instructor.*

ENS 350 **4 hours**
Energy Systems

An integrated study of the principles of energy, environment, and economics using a systems approach. Topics include: energy patterns in natural ecosystems, alternate energy systems, the role of energy in national and international economics, and the relationships between energy use and life style patterns.

ENS 351 **4 hours**
Environmental Survey Techniques

Basic environmental survey techniques discussed and applied in field situations. Topics include: mapping and surveying, remote sensing, and the analysis of climate, soils, hydrology and vegetation for land use planning. Fulfills general education requirement in science.

ENS 360 **1–4 hours**
Independent Study

ENS 361 **4 hours**
Environmental Impact Assessment

A basic introduction to the history, methodology, and application of environmental impact assessment. Lecture material is heavily oriented toward case studies and the laboratory will consist of an integrated class project designed to provide practical experience. *Prerequisites: BIO 231, SYS 200.*

ENS 370 **1–4 hours**
Selected Topics

ENS 383 **4 hours**
Environmental Ethics

An in-depth discussion of the ethical implications of major environmental problems such as world population and food supply, inequities in land and resource distribution, materialism and personal life styles, and exploitation vs. stewardship of the environment. *Prerequisite: BIO 231. Offered Interterm only.*

ENS 402 **4 hours**
Problem Solving in Environmental Science

A study of environmental problem-solving methodology integrating ecological concepts in a social-physical-biological context. *Prerequisites: BIO 231, SYS 200, COS 220.*

ENS 450 **1–4 hours**
Directed Research

ENS 490 **1–2 hours**
Honors

IAS 493 **1–2 hours**
Senior Seminar

GEOGRAPHY

Head, Professor Jenkinson

Geography is a service department with no major offered; a minor is available.

GEO 210 **4 hours**
Physical Geography

The study of the basic physical characteristics of the earth, and the effect of the natural environment upon the activities of mankind.

GEO 220 **3 hours**
Regional Geography

Assists students in acquiring certain basic ideas and supporting facts about contemporary world geography. The eight world regions are studied. They are Europe, the Soviet Union, Latin America, Anglo-America, the Middle East, the Orient, the Pacific World, and Africa.

GEO 230 **3 hours**
Political Geography

The geographic interpretation of world relations. The relationships of geographic elements to the development of nations both past and present are examined. *Offered in even numbered years.*

GEO 240 **4 hours**
Introduction to Geology

A basic course dealing with the fundamental concepts of physical and historical geology.

GEO 310 **4 hours**
History and Geography of Africa

See HIS 310.

GEO 311 **4 hours**
History and Geography of Latin America

See HIS 311

GEO 312 **4 hours**
History and Geography of Asia

See HIS 312

GEO 360 **1-4 hours**
Independent Study

GEO 393 **1-4 hours**
Practicum

IAS 493 **4 hours**
Senior Seminar

HEALTH, PHYSICAL EDUCATION AND RECREATION

Head, Associate Professor Gates; Associate Professors Patterson, Romine, Winterholter; Assistant Professors Bauer, Girton, and Law; Instructor Marsee

The Department of Health, Physical Education and Recreation provides broad programs for all students to enable them to meet general education requirements. Physical Education Majors courses lead to the following degrees: Bachelor of Science with teacher certification, Bachelor of Science degree in recreational leadership, Bachelor of Arts degree. An extensive program in intramurals and inter-collegiate athletics is available for all men and women.

Taylor now offers students the option of being certified by the National Athletic Trainer's Association, NATA. The requirements for certification are:

1. **B.A. or B.S. degree in any major**
2. **1800 hours of athletic training under the supervision of a certified (NATA) athletic trainer.**
3. **Carry a current CPR and Red Cross First Aid card.**

4. Pass the NATA Certification Examination—both written and practical.

Students expecting to complete a teaching major in physical education leading to a Bachelor of Science degree may choose one of these options:

Secondary Physical Education-44 hours* (Grades 7–12)

HPR 101
HPR 111
HPR 202
HPR 221
HPR 222
*HPR 232**
HPR 300(302,332)
HPR 310
HPR 342
HPR 381
HPR 382
HPR 402
HPR 432
IAS 493
*2 CoachingCourses**
BIO 241-242

** subject to approval by State Education Department*

All Grades—52 hours (Grades K–12)

HRP 101
HPR 111
HPR 202
HPR 221
HPR 222
HPR 232
HPR 252
HPR 300(302,332)
HPR 310
HPR 342
HPR 381
HPR 382
HPR 402
HPR 432
IAS 493
2 Coaching Courses
BIO 241-242

One full semester of student teaching is required for the completion of either of the degrees listed above.

A teaching minor in Physical Education requires the completion of 26 hours including the following courses:

HPR 101
HPR 111
HPR 202
HPR 221
HPR 222
HPR 300(302,332)
HPR 301
HPR 342
HPR 382
HPR 402
HPR 432

Students of other disciplines completing a teaching degree may complete the following courses (16 hours) for a Coaching Endorsement:

HPR 232
HPR 310
HPR 381
HPR 382
HPR 402
2 Coaching Courses

A Coaching Certificate may be earned by a student in any discipline who does not obtain teacher certification. This certificate may help the graduate obtain a coaching position in a school system. Required courses: (14 hours)

HPR 232
HPR 310
HPR 381 or 382
HPR 402
3 Coaching Courses

A Bachelor of Science degree in Recreational Leadership may be earned by completing 41 hours. This training will prepare a student for leadership positions in YMCA, WYCA, Boy Scouts, Girl Scouts, Christian Service Brigade, Pioneer Girls, municipal recreation and camping organizations.

A group of cognate courses is also required:

HPR 121
HPR 101, 202, 342 (Any 6 hrs.)
HPR 212
HPR 301
HPR 310
HPR 311
HPR 322
HPR 332
HPR 422
HPR 492
HPR 494
ART 344
IAS 493

HPR 100 **1 hour**
Fitness for Life

This course provides each student with an opportunity to assess his/her well being through a battery of physical fitness tests. Class content includes basic principles which support a physically active lifestyle. Each student is challenged to consider the personal, spiritual, and social responsibilities of maintaining an optimal level of physical capacity. Emphasis is placed upon practical implementation of cardiovascular exercise.

HPR 200 **1 hour**
General Physical Education

Seek to provide the appreciation, understanding and skill development enabling the student to enjoy a variety of activities that should improve one physically, mentally, socially, emotionally and spiritually. Will not apply toward a major in physical education. *Prerequisite: HPR 100*

HPR 101 **2 hours**
Skills and Teaching Methods of Racquet Sports

This course will include the various skills used to play racquet sports, such as tennis, racquetball, and badminton. Also included will be the unique methods of teaching various racquet sports. *Offered Fall semester yearly.*

HPR 111 **2 hours.**
Foundations of Physical Education and Health

Designed to give the student an understanding of the scope and purpose of physical education in the world today. Included is the study of the history, philosophy and contemporary issues of physical education. *Offered Fall semester yearly.*

HPR 121 **2 hours**
Foundations of Recreation and Camping

Provides the student with a broad based understanding of the various opportunities available in the fields of Recreation and Camping. Also included is a study of history, philosophy and contemporary issues. *Offered Fall semester yearly.*

HPR 202 **2 hours**
Skills and Teaching Methods of Individual Sports

This course is structured to teach skills and teaching methods in the following activities: bowling, golf, folkdance, track and field, fitness, aerobics and weight training. *Offered Spring semester yearly.*

HPR 212 **3 hours**
Program Development-Recreation and Camping

Study of philosophy, objectives, organization, program and methods in Recreation and Camping. Emphasis on recruiting, training, guiding and inspiring leaders. *Offered Spring semester of odd years.*

HPR 221 **1 hour**
Beginning Gymnastics

An introductory course with emphasis on the basic fundamentals and movements of gymnastics. Students are expected to develop skill at the beginning level. Time is spent on spotting techniques and various teaching methods. *Offered Fall semester yearly.*

HPR 222 **2 hours**
Intermediate Gymnastics

A continued course in gymnastics with emphasis on intermediate skills, movements, and spotting. Competitive gymnastics is introduced and explored. Emphasis is on lesson plans, warm-up exercises, teaching methods and teaching experiences. *Prerequisite: HPR 221. Offered Spring semester yearly.*

HPR 231 **2 hours**
Officiating of Men's and Women's Sports

A study of the officiating skills and techniques needed for various men's and women's sports. Opportunity to earn official's rating is provided. *Offered Fall semester yearly.*

HPR 232 **2 hours**
Psychology of Coaching

A study of the nature of the coaching profession. The course emphasizes philosophy of sport, sports psychology and coaching methods. *Offered Spring semester yearly.*

HPR 240 **2 hours**
Elementary Games and Rhythmics

A study of various games and rhythmic activities that can be taught in the elementary school. This course contains knowledge of the physical education program and the role of the elementary teacher to it. Also included are various teaching methods. *Open to early childhood and elementary education majors only. Offered Fall and Spring semester yearly.*

HPR 241, 242 **4 hours each**
Human Anatomy and Physiology

See BIO 241, 242.

HPR 252 **4 hours**
Physical Education in Elementary Schools

A study of the elementary physical education program and its value to a child's education. Included are various games, sports and rhythmical activities which can be used in such a program. Basic training for the physical education specialist is provided. *Offered Fall semester of odd years.*

HPR 261 **2 hours**
Coaching of Basketball

Offensive and defensive play studied, with emphasis on modern trends in basketball. Rules, fundamentals, schedule making, scouting, care

and choice of equipment and techniques of team selection are included. *Offered Fall semester of odd years.*

HPR 262 **3 hours**
Elementary School Health, Safety, and First Aid

Provides the elementary education student with a basic understanding of what should be taught to the students concerning health and safety. This course deals with basic health, safety and first aid content and teaching methods. *Open to elementary education majors only. Offered Fall and Spring semester yearly.*

HPR 300 **1 hour**
Basic Swimming Skills

Stresses the development of personal swimming skills and knowledge of water safety. Red Cross Basic Rescue and Water Safety Certification. *Offered Fall semester yearly.*

HPR 301 **4 hours**
School Health Education and Safety

Proper health and safety practices studied, with emphasis on the materials that should be taught in a high school health class. Methods for teaching are stressed in addition to content. *Offered Fall semester yearly.*

HPR 302 **1 hour**
Advanced Life Saving

Stresses the development of skills for personal and water safety and life saving situations. Red Cross and Advanced Life Saving Certification can be earned. Current Advanced Life Saving Certification or Water Safety Instructor may test out for credit. *Offered Spring semester yearly.*

HPR 310 **2 hours**
First Aid and Athletic Injury Care

Instruction and practical laboratory experience dealing with first aid, conditioning, external supportive techniques, and evaluation of common athletic injuries. *Offered Fall semester yearly.*

HPR 311 **3 hours**
Church and Community Recreation

Planning, implementing, and supervising recreation programs in the church and community. Guest lectures by area pastors, Wandering Wheels leaders, etc. *Offered Fall semester 1988 and 1990.*

HPR 312 **2 hours**
Coaching of Baseball and Softball

A course aimed at providing the student with an understanding of the general fundamentals of the game and a position breakdown of the important coaching points. The strategy of complete offensive and defensive performance is covered, as are problems and challenges common to the baseball coach. *Offered Spring semester of odd years.*

HPR 322 **2 hours**
Overview of National Voluntary Youth Membership Organizations

History, philosophy, organization, policies, programs, and practices of various youth organizations. *Offered Spring semester of odd years.*

HPR 330 **2 hours**
Advanced Athletic Training

Techniques in administration of athletic training programs, advanced rehabilitation, use of therapeutic modalities, and advanced care and management of athletic injuries. *Prerequisite: HPR 310. Offered Spring semester yearly.*

HPR 332 **1 hour**
Water Safety Instructor

Stresses the skill development involved in teaching certified Red Cross courses. Included are both teaching methods and experiences. Red Cross Water Safety Instructors Certification can be earned. *Prerequisite: HPR 302. Offered Spring semester yearly.*

HPR 342 **2 hours**
Skills and Teaching Methods of Team Sports II

The focus of this course will require students to participate in various team sports and learn the skills and methods for teaching them. Sports include: soccer, volleyball, basketball, softball, flag football, and new games. *Offered Spring semester 1990 and 1992.*

HPR 360 **1–4 hours**
Independent Study

HPR 361 **2 hours**
Coaching of Football

A presentation of the different offensive and defensive theories of modern football including the strengths and weaknesses of each. Includes brief review of fundamentals and also purchase and care of equipment, practice and program organization, and problems and challenges of the overall football program. *Offered Fall semester of even years.*

HPR 370 **1–4 hours**
Selected Topics

HPR 372 **2 hours**
Coaching of Track and Field

Discusses all track and field events with emphasis on teaching/coaching techniques for each. Includes demonstrations, form study, track and field meet management, scheduling advantages and use and care of various equipment. *Offered Spring semester of even years.*

HPR 381 **2 hours**
Kinesiology

An analysis of human movement based on anatomic and mechanical principles. Emphasis is given to the application of these principles to the understanding of athletic performance. *Prerequisites: HPR 241, 242. Offered Fall semester yearly.*

HPR 382 **3 hours**
Physiology of Exercise

A study of the adjustment of the systems of the body to exercise. Attention is given to conditioning of athletes as well as to understanding the physiological responses to recreation exercise. *Offered Spring semester yearly.*

HPR 392 **2 hours**
Adapted Physical Education

A study of various handicapping conditions, appropriate games and activities, and the adapted physical education program. Included are teaching methods and experiences and observations of the adapted physical education program. *Offered spring semester of even years.*

HPR 393 **1–4 hours**
Practicum

HPR 402 **3 hours**
Organization and Administration of Physical Education

An examination of the methods of organizing and administering a physical education, intramural and athletic program. Considerable time is spent studying budgeting, purchasing and care of athletic equipment. *Offered Spring semester yearly.*

HPR 422 **3 hours**
Organization and Administration of Recreation and Camping

Exploration of methods for organizing and administering a variety of programs in the areas of recreation and camping. Includes the study of staffing, budgeting and the puchase and care of equipment. *Offered Spring semester yearly.*

HPR 432 **2 hours**
Evaluation of Physical Education

A thorough study of how to properly analyze test results. Attention is given to the construction of and proper administration of written and performance tests. Correct evaluation of existing tests and laboratory experience in testing and measuring techniques in physical education are included. *Offered Spring semester yearly.*

HPR 490 **1–2 hours**
Honors

HPR 492 **4 hours**
Internship—Recreational Leadership

Work as an intern in a recreational program (municipal, Nautilus, YMCA, Church, etc.) serve as an administrative assistant to the Director, assisting in various aspects of the program. *Offered Summer and Interterm yearly.*

IAS 493 **4 hours**
Senior Seminar

HPR 494 **4 hours**
Internship—Camping Leadership

Work as an intern in an organized camp. Serve as administrative assistant to the camp director in various phases of administration and programming. *Offered Summer and Interterm yearly.*

HISTORY

Head, Professor Ringenberg; Professors Heath, Jenkinson, Mikkelson, Winquist; Assistant Professor Jones

The History Department believes that a study of our ancestors and their cultures provides the necessary perspective for living meaningfully in contemporary society. If God's purposes for mankind are timeless, and if the results of obedience and disobedience to His will are the same in the past as in the present, then we must learn from the past in order to live in the present with meaning and ponder the future with confidence.

Many history majors teach; many do not. Of those who do not, a few may enter directly history-related

vocations (e.g., museum directors and curators, archivists, government and industrial historians). More non-teaching majors enter vocations where history is useful as general background rather than specific vocational training. For example, they become ministers, lawyers, librarians, or accept government or business positions. Most of these professions either require graduate study or provide for greater career advancement because of graduate study beyond the history, undergraduate major.

Most seminaries, law schools, and graduate schools of library science and business look upon history as an excellent undergraduate major. Many graduate school leaders consider the combination of an undergraduate major in a liberal arts subject such as history with the directly vocational graduate curriculum to be the best possible professional training.

Students majoring in the department are advised to plan a program with a proper balance between American and world history courses. All students expecting to major in the department who do not have a strong history background on the secondary level should take HIS 100 and 220 as early in their program as possible. At least 34 hours are required for a major in the Bachelor of Arts degree program. Students majoring in another department may add a History minor of at least 17 hours, with 12 of these hours being concentrated in either American or World History.

Students interested in obtaining the Bachelor of Science in Education degree to teach history and other social sciences in the secondary schools are requested to consult the department head. This social science education degree requires a minimum of 52 hours divided among economics, geography, government, psychology, sociology, United States history, and world history. The student will select one of the above as a primary area (18 hours), two others as support areas (12 hours each), and three of the remaining four areas for a single course each. A social studies minor includes 24 hours, with 15 of these hours devoted to study in one of the seven social science areas identified above.

HIS 100 **5 hours (4 hours in summer)**
World History

Survey of the civilizations of Europe, Asia, Africa, and the Western Hemisphere from the earliest times to the present.

HIS 120 **5 hours**
History of the United States

Treats the progressive social, political, and cultural development of the people of the United States from the colonization period to the present.

HIS 170/370 **1–4 hours**
Selected Topics

HIS 210/310 **4 hours**
History and Geography of Africa

A course designed to enable the student to acquire a systematic body of knowledge concerning the physical and cultural environments of Africa, both past and present, and to study the significant role which Africa plays in the modern world. *Offered in alternate years.*

HIS 211/311 **4 hours**
History and Geography of Latin America

An historical and geographical study of the nations between the Rio Grande River and Cape Horn. Attention is given to the development of each Latin American area and its relationship to the United States. *Offered in alternate years.*

HIS 212/312 **4 hours**
History and Geography of Asia

A study of the Far East with emphasis on China, Japan, and cultural, political, and international relations in modern times. *Offered in alternate years.*

HIS 221/321 **3 hours**
Middle East History

Ethnic and geographical problems of the ancient Middle East are examined as background of the medieval and modern cultures. *Offered in alternate years.*

HIS 222/322 **4 hours**
Ancient History

An examination of ancient civilizations with special attention to our twentieth century debts to the past. *Offered in alternate years.*

HIS 230/330 **3 hours**
American Religious History

A study of the historical development in the United States of such movements as Puritanism, revivalism, the Social Gospel, Judaism, Catholicism, and variant forms of Protestantism.

HIS 231/331 **4 hours**
Europe 1517–1789

Historical study of Europe from Luther to the Bastille including the Ages of the reformation, Absolutism, and the Enlightenment. *Offered in alternate years.*

HIS 232/332 **4 hours**
Modern Europe 1789–Present

A study of Europe from the French Revolution to the Common market. Emphasis is placed on the political, social, economic, and intellectual aspects of this period. *Offered spring semester.*

HIS 241/341 **3 hours**
Colonial History

An investigation of the colonization of North America by the Spanish, French, Dutch, and English, as well as European rivalries, colonial society, and the Revolutionary War.

HIS 242/342 **4 hours**
History of England

A course in which, along with the history of England itself, a study is made of the growth of the empire, international problems, and British achievements in cultural and intellectual areas.

HIS 250 **1 hour**
Current Events

A discussion class reviewing and evaluating the major world news events. Students will be expected to read regularly a major news magazine and/or newspaper.

HIS 251/351 **4 hours**
American Diplomatic History

A survey of the diplomatic relations of the United States from the period of the American Revolution to the present. *Offered in alternate years.*

HIS 252/352 **4 hours**
History of the Middle Ages, 300–1500

A study of the development of western civilization from the fall of the Roman Empire in the West to the Reformation. *Offered in alternate years.*

HIS 261/361 **4 hours**
Russian Civilization

A study of the development of the Russian nation, its people and culture from Varangian beginnings through czarist rule, and into the Soviet Union of the twentieth century. Emphasis is placed on certain periods and personalities including the Kievan era, Peter the Great, Catherine the Great, tsars of the nineteenth century, the 1917 Revolution, Lenin, and Stalin.

HIS 271/371 **3 hours**
American Frontier History

A study of the settlement and development of this nation from the Appalachians to the Pacific, and the effect of the frontier upon national and international affairs.

HIS 272/372 **5 hours**
American Constitutional Development

Stresses the origin, adoption, and interpretations of the United States Constitution. Cases and readings on the powers of the federal government, judicial review, states rights, state police powers, federal commerce powers, and due process are analyzed. *Prerequisites: HIS 220 and POS 100, or consent of the instructor.*

HIS 282/382 **4 hours**
Renaissance and Reformation, 1300–1560

A study of the movements and leaders as vital factors in the transformation from medieval to modern times. *Offered in alternate years.*

HIS 291/391 **4 hours**
The World since 1945

An examination of key world events in Africa, Asia, Europe, Latin America,, and the United States and Canada, since World War II. The emphasis will be on the political and economic development though cultural and social aspects will also be included. One hour each week will be devoted to an analysis of current events.

HIS 292/392 **4 hours**
Twentieth Century U.S. History

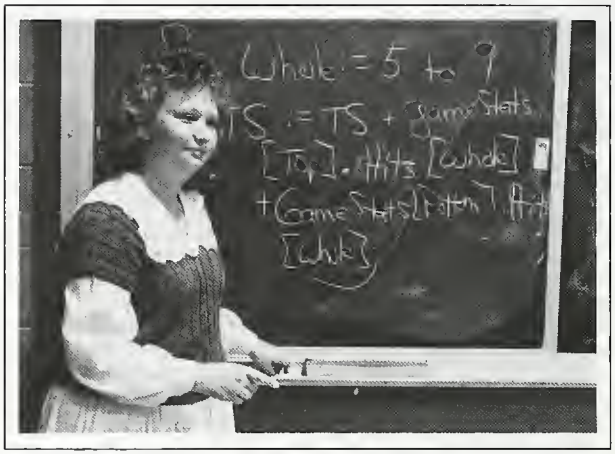
A study of the political, military, economic, and cultural development of the nation during its rise to world prominence. *Offered spring semester.*

HIS 360 **1–4 hours**
Independent Study

HIS 393 **1–4 hours**
Practicum

HIS 490 **1–2 hours**
Honors

IAS 493 **4 hours**
Senior Seminar



INFORMATION SCIENCES

Head, Professor W. Roth; Professors Adkison, Burden; Associate Professor Diller; Assistant Professors Lightfoot and White

Computer Science

Bachelor of Arts Degree — Computer Science

Bachelor of Science Degree — Computer Science/Systems

A major in computer science includes a 33 hour core consisting of:

COS 120, 250, 311, 331, 340, 341, 381, 382, plus MAT 151 and SYS 200. In addition, a 30–31 hour application field in one of four areas:

Business Information Systems: SYS 390; COS 240, 262, 272, 421; NAS 240; BUA 352; ACC 241, 242, and 321

Scientific Programming: one of (PHY 211 or 331), MAT 230, 240, 352, 372, 412 plus COS 350 and 421

Artificial Intelligence: MAT 230, 352, PHY 331; and COS 280, 330, 351, 380, 383; and SYS 352

Integrated Program: COS 240, 262, 271, 280, 320, 350; NAS 240; MAT 250; SYS 390; plus SYS 352 or COS 421

All computer science majors are urged to complete the Bachelor of Science/ Systems program described in this catalog. Majors are also required to pass a comprehensive examination during their junior and senior year. This examination consists of three parts—a written examination during the fall of their junior year, plus a programming project and an oral examination during January of their senior year.

Enrollment in this major is limited to qualified students at time of application. Majors must have a 2.2 cumulative G.P.A. by the time they reach sophomore status, a 2.3 by the time they become juniors, and a 2.4 when they obtain senior standing.

A computer science minor consists of COS 120, 262, 341, 382; SYS 200, 390; MAT 250 and one from COS 240, 280, or 350.

COS 100 **3 hours**
Computing in the Modern World

An introduction to the computational tools and skills needed to be computer literate in today's world with an emphasis on social concerns. Students will develop and use programs which are designed to give an understanding of the role of the computer in our society, along with a discussion of the social problems and concerns brought on by this technology. An extended BASIC is used as the programming language along with work on spreadsheets, file processing, and word processing. Some sections emphasize educational applications. (Not for computer science majors or systems students.)

COS 110 **3 hours**
Business Computer Systems

A study of the use of computers as they are employed in the modern business organization. An overview of the hardware, programming languages, databases, teleprocessing and the supporting industry is stressed. Some programming problems in business applications are solved using an extended BASIC and/or COBOL as the programming language(s). The course also deals with the social impacts of computers and the microcomputer impact on business. (Business and accounting majors not in Systems only.)

COS 120 **4 hours**
Introduction to Computer Science

Computer programming is stressed. Algorithms for text processing, information retrieval, mathematical manipulating, sorting, file handling, and introductory data structures are presented. Good algorithm design, style, program structure, documentation, code reading, and effective debugging and testing are emphasized. Three hours lecture and two laboratory hours per week.

COS 230 **2 hours**
Missions Technology

A survey and in-depth study of technology applied to Christian missions. Theory, as well as issues in application, will be developed. Extensive field trips to observe mission organizations will be included. *Prerequisite: One course in computer science.*

COS 240 **4 hours**
File Management

This course investigates the major file types, their implementation and their application. Emphasis is on selection and application of appropriate file types to problems that would typically be programmed in COBOL. In addition, advanced features of the COBOL language, such as external subroutines, text libraries, Report Writer and database interfaces will be explored. *Prerequisite: COS 120*

COS 250 **4 hours**
Data Structures

The internal and external representation of data used with digital computers. An emphasis on algorithms and applications of data structures including sorting and searching methods, arrays, linked lists, sets, and trees. At least two programming languages will be used in developing these algorithms. Currently these languages are Pascal and C *Prerequisite: COS 120.*

COS 262 **3 hours**
Microcomputer Business Systems

An evaluation of hardware, software, and systems for business use with microcomputers. A survey of existing hardware and future trends, evaluation of literature and documentation, plus group projects emphasizing systems analysis and design. *Prerequisites: COS 240 or 250 and SYS 200*

COS 272 **3 hours**
Applications Software Management

This course will cover the various systems in a typical business environment such as accounts payable and receivable, payroll, inventory, and

bill of materials. This course will also encompass topics such as screen design, forms design, ergonomics and business-related expert systems. *Prerequisite: COS 250.*

COS 280 **3 hours**
Introduction to Artificial Intelligence

A survey of the entire field of AI. An historical review is followed by an assessment of current research locations, personnel, needs, and social impact. Seven major areas of technical development are explored: learning, knowledge, representation, problem solving, natural language processing, image processing, robotics, and expert systems. An introduction to LISP is included. *Prerequisites: COS 120 and COS 250.*

COS 310 **1 hour**
Current Literature Survey

This course will provide a survey of current literature in the field of computer science and related areas. Emphasis will be placed on the necessity of developing a regular habit of journal and periodical reading in the field of computer science. Various methods for maintaining currency in the literature will be explored. Students will also take part in leading discussions on particular topics and articles of interest, drawn from their reading.

COS 311 **1 hour**
Ethics in Computer Science

This course will deal with the ethical implications of computers in society and the role of Christians as computer science professionals. Explored will be several of the major ethical issues in the field such as privacy, power, liability and whistle-blowing. The ethical aspects of the field and their relationship to one's faith are an integral part of Information Sciences and this course.

COS 310 **2 hours**
Algorithms/Programming Contests

A course to enrich the student's ability to design, implement, and evaluate algorithms in fields such as mathematics, data structures, text manipulation, and other areas not normally included in the curriculum. Programming contests, both on and off campus, are also part of the course. All students anticipating competing on the programming teams representing Taylor should take this class at least once. *PASS-FAIL only.*

COS 330 **4 hours**
Microcomputer Interfacing

Software and hardware considerations involved in interfacing and using minicomputers and microcomputers for on-line applications and as a part of larger systems are studied. *Prerequisite: PHY 331 or permission of instructor.*

COS 331 **3 hours**
Data Communications

A study of the nature and applications of data communications in use today. Fundamental concepts of types, modes, and media of transmission are studied. The type of equipment used in data communications is discussed. Network configurations, transmission correction procedures, and data communications software are examined. *Prerequisite: COS 262 or 330.*

COS 340 **4 hours**
Project Management

This course will introduce students to the procedures and tools of large system software project development and management. Basic concepts of software engineering will be introduced and the development of a large software system will be used as an instructional tool. The project will be designed and its development managed using the tools and techniques examined in the course. *Prerequisite: COS 250*

COS 341 **3 hours**
Database Concepts

A study of the basic nature and application of databases in use today. The physical representation of databases, the primary structured models used in organizing a database, commercially available database management systems, and the factors involved in implementing and using a database are covered. Students will design and work with a database using one of the database management systems on the Taylor University computer system or dBASE III. VAX BASIC or PASCAL is used in projects requiring students to write programs. *Prerequisite: COS 250.*

COS 350 **3 hours**
Computer Graphics

A programming course dealing with the current technology in interactive computer graphics. Softcopy, raster-scan, and color technologies are used. In addition, matrix transformations, clipping and perspective algorithms, and hidden line solutions are discussed and programmed. Business, scientific, and artistic uses of graphics are covered. Group projects are developed. *Prerequisite: two courses in computer science and MAT 151.*

COS 351 **3 hours**
Image Processing

The fundamental concepts of digital image acquisition, enhancement, representation, analysis, and understanding. Covers hardware components, software design, current systems and applications. *Prerequisites: COS 280; (suggested) PHY 331 or COS 350. Offered Fall semester of even years only.*

COS 360 **1–4 hours**
Independent Study

COS 370 **1–4 hours**
Selected Topics

Prerequisite: Two courses in Computer Science

COS 380 **3 hours**
Natural Language Processing

A study of the automation of human communication abilities, covering both textual and vocal aspects. Major topics include language understanding, representation, enhancement, generation, translation, and speaker/author recognition. LISP is reviewed. *Prerequisite: COS 280. Offered Fall semester of odd years only.*

COS 381 **3 hours**
Computer Organization

The evaluation and comparison of current and proposed computer architecture designs including an introduction of distributed processing and networking. Students will get a heavy emphasis on learning, understanding, and building on assembling language programmming. DEC MACRO-11 and other assembly languages are used to teach an understanding of the concepts. *Prerequisite: COS 262 or COS 330.*

COS 382 **3 hours**
Language Structures

A survey of the significant features of both widely used and experimental programmming languages with particular emphasis on grammars, syntax, semantics, notation, parsing, and storage arrangements. Selected examples of general purpose and special purpose languages are studied. *Prerequisite: COS 381 or permission of instructor.*

COS 383 **3 hours**
Robotics

A study of the development of robots, their current capabilities and impact on our society. Major emphasis is on the technology underlying sensors, effectors and control systems. A survey of applications is provided. Practical experience in controlling and/or building robots is included. *Prerequisites: COS 280 and PHY 331.*

OS 393 **3–4 hours**
Practicum

PASS-FAIL only.

COS 421 **3 hours**
Operating Systems

A study of the major design considerations for implementing new operating systems as well as evaluation criteria for the assessment of existing ones. Such topics as resource allocation, scheduling algorithms, I/O processing, and protection mechanisms will be discussed. Management considerations will be stressed, along with the impact of different systems architectures on operating systems design. The design of an actual operating system may be included, along with management experience in an operating systems environment.

COS 450 **1–4 hours**
Directed Research

Prerequisite: Senior level standing in Computer Science.

COS 490 **1–2 hours**
Honors

IAS 493 **4 hours**
Senior Seminar

Systems

Bachelor of Arts and Bachelor of Science Degrees in any major with Systems

Students may choose to augment any liberal arts program with a career thrust in systems analysis. To do so, students should register for the BA or the BS degree in the systems curriculum and continue to pursue the liberal arts major. The systems curriculum requirements are SYS 200, 392, 401, 402; COS 220*, and COS 240, or 250; CAS 201*, SOC 320*, MAT 151*, MAT 382, NAS 240, a major 393 (a practicum course in the student's major), and 3 hours of electives in a systems or computer science course.**

Depending on the student's major and other areas of interest, other courses may be substituted for those listed above. For example, mathematics, physics, chemistry, and pre-engineering majors will take a different sequence of mathematics courses, and may elect to take a computer science course other than COS 240 or 250, subject to Information Sciences Departmental approval. Business majors are not required to take SOC 320.

*** May count as a general education requirement.**

**** May count as part of departmental major.**

Associate Degree in Systems

An Associate of Arts degree in Management Information Systems has been developed for people who wish to become information systems specialists. Students enrolled in this two-year program are preparing for vocations in the fields of computer programming and information systems. The sequence includes a combination of business and Information Sciences courses built around a core of liberal arts studies. In the three course sequence of SYS 200, 390, and COS 393 the student approaches systems in general, management information systems in particular, and completes a practicum in a systems environment outside of Taylor University.

The course requirements are:

ENG 110; MAT 110 or 151; IAS 101; HPR 100; BIB 110, 210; ACC 241, 242; BUA 352; CAS 201; NAS 240; SOC 320; COS 120, 240, 250, 262, 393; SYS 200, 390, 392 (to be taken twice); and an elective from literature or fine arts.

SYS 200 **4 hours**
Basic Systems

An introduction to systems concepts and the basic tools of systems analysis. Topics include the system development life cycle, decision-making, project planning and control, philosophical foundations, and selected applications of systems techniques in the student's general field.

SYS 240 **3 hours**
Business Application Programming

This course introduces concepts and techniques for structuring data files for optimal utilization in typical business applications. Students are given opportunity to implement various solutions using these concepts in business application programming exercises. Fundational elements of the COBOL language are presented as the tool for developing these programs. *Prerequisite: COS 120.*

SYS 294 **4 hours**
Survey of Management Information Systems

An examination of the conceptual foundations, structure, development, and control of management information systems. Various components of a computer system and their use in an information system are discussed. Particular attention is paid to information-oriented, database applications. After an investigation of the textual material, the class observes many operative management information systems in educational, financial, business, and government settings in various metropolitan centers. *Offered at the discretion of the department when warranted by the anticipated enrollment. Summer Session I only.*

SYS 352 **3 hours**
Expert Systems

The integration of current concepts of knowledge representation, deduction, and inference making in advanced consulting systems. A survey is made of currently available systems, with special focus on financial packkages. Enhancements are made to an existing expert system. Programming is in LISP and in one or more expert systems languages such as ART or KEE. *Prerequisites: COS 280 and SYS 200. Suggested: COS 382*

SYS 360 **1–4 hours**
Independent Study

SYS 370 **1–4 hours**
Selected Topics

SYS 390 **3 hours**
Information Systems Analysis

Analysis of information gathering and processing systems intended to facilitate management in decision making, planning and control of an organization. The course includes presentation and utilization of the tools of structured systems analysis and design. *Prerequisites: COS 120 and SYS 200.*

SYS 392 **1 hour**
Systems Seminar

The integration of systems topics with an emphasis on current development in many disciplines. Guest, faculty, and student presentations plus occasional group discussions provide the format. May be taken twice.

SYS 401 **4 hours**
Operations Research

Mathematical techniques used in systems analysis including mathematical programming, probability models, game theory, optimization and statistical techniques with an emphasis on applications. *Prerequisites: The following courses (or their approved substitutes) must have been completed with a grade of C or better: SYS 200; COS 120, 240 or 250; NAS 240; MAT 352, and 382. The following courses (or their approved substitutes) must have been completed with a grade of C– or better: MAT 151 and 382.*

SYS 402 **4 hours**
Modeling & Simulation

A study of mathematical modeling and simulation methods. Focus on modeling discrete systems. A variety of simulation languages are reviewed, but SIMSCRIPT is used extensively. Many applications are surveyed and group term projects are carried out. *Prerequisites: The following courses (or their approved substitutes) must have been completed with a grade of C or better: SYS 200; COS 120, 250; and NAS 240. The following courses (or their approved substitutes) must have been completed with a grade of C– or better: MAT 382.*

INTER AREA STUDIES

See Final Entry of Departmental Listings

MASS COMMUNICATIONS

See *Communication Arts*

MATHEMATICS

Head, Associate Professor Harms; Professor Neuhouser; Associate Professor Wenger; Assistant Professor Benbow

The major objective of the mathematics department is to help students increase their knowledge and understanding of mathematical concepts, develop their reasoning ability and problem solving skills, and improve their ability to apply mathematics in a variety of areas in order to prepare them to become teachers of mathematics, to enter careers in business, industry, and government, and for graduate study in mathematics and related areas.

The student expecting to major in mathematics should have at least three years of high school mathematics including two years of high school algebra, some geometry, and trigonometry. In the freshman year, students planning to major in mathematics and those preparing for scientific work, including engineering, should be qualified to begin with MAT 151.

A Bachelor of Arts degree consists of at least 43 hours. Courses MAT 250, 340, 361, 412, 461, and IAS 493 are required.

A Bachelor of Arts degree with a special area concentration in computer science consists of at least 39 hours of mathematics, including MAT 250, 340, 372, IAS 493 and either 361 or 412; and an additional 20 hours of computer science including COS 120, 250, 381, 382, and SYS 402.

A Bachelor of Science degree in mathematics leading to teacher certification consists of at least 43 hours, including courses MAT 250, 312, 340, 352, IAS 493, one course in applied mathematics and MAT 361, or 412.

A Bachelor of Science degree in mathematics/systems includes 43 hours of mathematics, including courses MAT 250, 340, 352, 393, either 361 or 412, and IAS 493. See the systems requirements also.

One course in chemistry or physics is required for all majors.

MAT 100 **1 hour**
Mathematics Fundamentals

A study of the basic arithmetic operations, exponents, ratios, linear and quadratic equations, graphs, and story problems. This course is specifically designed to help those students who need help in passing the

mathematics proficiency examination. *May be taken PASS-FAIL only. Does not count toward a mathematics major.*

MAT 110 **3 hours**
Finite Mathematics

A study of logic, set theory, functions, matrices, systems of linear equations and inequations, linear programming, sequences and series. *Prerequisite: A good understanding of algebra. Does not count toward a mathematics major.*

MAT 130 **4 hours**
Algebra and Trigonometry

Topics from algebra and trigonometry including equations, algebraic, exponential, logarithmic, and trigonometric functions, identities, and graphs. *Does not count toward a mathematics major. Offered Fall semester only.*

MAT 140 **3 hours**
Fundamental Calculus for Applications

An introductory study of derivatives, series, and integrals with a wide range of applications including maximum and minimum problems. *Prerequisite: MAT 110 or permission of instructor. Does not count toward a major in mathematics.*

MAT 151 **4 hours**
Calculus with Analytic Geometry I

Advanced topics in algebra, selected topics in trigonometry and analytic geometry, and an introduction to calculus including limits, continuity, derivatives, and integrals. *Offered Fall semester only.*

MAT 170 **3 hours**
Ways of Knowing

Topics studied include number, logic, Euclidean and non-Euclidean geometry, Algebraic structures, dimension, and infinity. A study is made of the deductive method in mathematics and its relationship to ways of knowing in other areas. There is an emphasis on the beauty of mathematics and the relationship of mathematics to science and other forms of culture including the arts and religion. This course is in the Honors Program. *Offered Spring semester of odd years only.*

MAT 201 **5 hours**
Mathematics for Elementary Teachers I

First of a two-course integrated content-methods sequence for elementary teacher preparation. This course is a study of the number system through the real numbers, with special reference to teaching aids, laboratory methods, and pedagogy, including classroom use of hand calculators and microcomputers. Each student is encouraged to team up with a student of MAT 202 in a teaching team in the Taylor-Eastbrook Mathematics Project (TEMP). *Does not count towards a mathematics major. Open to majors in early childhood, elementary education, and special education only.*

MAT 202 **5 hours**
Mathematics for Elementary Teachers II

Second of a two-course integrated content-methods sequence for elementary teacher preparation with emphasis on geometry, problem-solving, and small-group work. Each student is responsible each week for a mathematics class in local schools, grades 1-6 (TEMP). *Does not count toward a mathematics major. Open to majors in early childhood, elementary education, and special education only.*

MAT 230 **4 hours**
Calculus with Analytic Geometry II

A study of analytic geometry, functions, limits and derivatives, differentiation and integration of algebraic functions and elementary transcendental functions, applications of the derivative, differentials, the definite integral, and special techniques of integration. *Offered Spring semester only.*

MAT 240 **4 hours**
Calculus with Analytic Geometry III

Analytic geometry, polar coordinates, Taylor's formula, infinite series, improper integrals, further applications of calculus, and an introduction to calculus of several variables are studied. *Offered Fall semester only.*

MAT 250 **3 hours**
Algebraic Structures

A study of the mathematical structure and applications of matrices, symbolic logic, Boolean algebra, groups, rings, integral domains, and fields. Specific examples of the various algebras are studied rather than an extensive theoretical development. An introduction to abstract and linear algebra. *Offered Fall semester only.*

MAT 261, 262 **1 hour each**
Special Problems

Selected topics in mathematics. *Prerequisite: Consent of the department head.*

MAT 312 **4 hours**
College Geometry

Advanced Euclidean plane geometry, with a brief survey of some of the non-Euclidean geometries and vector and transformational geometry. *Prerequisite: MAT 230. Offered Spring semester of odd years only.*

MAT 340 **4 hours**
Advanced Calculus

Emphasis on three dimensional analytic geometry, matrices, vectors, partial differentiation, multiple integration, and a more rigorous development of the fundamental concepts of calculus. *Offered Spring semester of even years only.*

MAT 352 **4 hours**
Mathematical Statistics

A theoretical, as well as applied, study of counting outcomes, probability, probability distributions, sampling distributions, confidence intervals, tests of hypotheses, linear regression, and correlation. *Corequisite: MAT 240. Offered Fall semester only.*

MAT 360 **1–4 hours**
Independent Study

MAT 361 **4 hours**
Abstract Algebra

Emphasis on set theory; development of the postulates of group theory, rings, integral domains, and fields. *Prerequisite: MAT 250. Offered Spring semester of odd years only.*

MAT 370 **1–4 hours**
Selected Topics

MAT 372 **4 hours**
Numerical Analysis

Iterative and other algorithmic processes, propagation of error, solution of transcendental and polynomial equations, numerical integration and differentiation, linear algebra, curve-fitting and numerical solution of differential equations are studied. *Prerequisites: COS 120, MAT 240. Offered Fall semester of even years only.*

MAT 382 **3 hours**
Advanced Statistics

A study of regression analysis, including multiple and non-linear regression; correlation analysis, including multiple and partial correlation; analysis of variance; and non-parametric statistics. This course also includes selected topics from calculus and matrix theory required for the study of these topics. *Prerequisite: MAT 352 or NAS 240.*

MAT 393 **1–4 hours**
Practicum

MAT 412 **4 hours**
Linear Algebra

A course on matrix theory, determinants, linear equations and linear dependence, vector spaces and linear transformations, characteristic equation, and quadratic forms. *Prerequisite: MAT 250. Offered Spring semester of even years only.*

MAT 431 **4 hours**
Differential Equations

A course on the solution of differential equations of the first order and first degree, orthogonal trajectories, linear differential equations with constant coefficients, nonhomogeneous equations by undetermined coefficients and variation of parameters, applications to vibration problems and electrical circuits, and an introduction to series solutions. *Prerequisite: MAT 240. Offered Spring semester only.*

MAT 461 **4 hours**
Real Analysis

Real number system, topology, functions, sequences, limits, continuity, theory of differentiation and integration are included in this course. *Prerequisite: MAT 340. Offered Spring semester of odd years only.*

IAS 493 **4 hours**
Senior Seminar

MODERN LANGUAGES

Head, Assistant Professor J. Loy; Assistant Professor Dixon

The knowledge of foreign languages is an integral part of educating students to assume responsible roles as citizens of an increasingly interdependent world. The department provides a variety of courses and programs to meet this challenge.

The department offers

1. Courses in French, German and Spanish to meet the two year language requirement.

2. A minor in French or Spanish for students in a Bachelor of Arts degree program.
3. A minor in French or Spanish for teacher certification.
4. The Bachelor of Arts degree in French or Spanish.
5. The Bachelor of Science degree for teacher certification in French or Spanish.

For the Bachelor of Arts program, the minor in French requires 17 hours; the minor in Spanish requires 16 hours. The major consists of 30 hours of courses. This major is often combined with a second major, expanding the student's personal and career options. In Spanish, SPA 211 and SPA 212 are required for the major.

For the Bachelor of Science program, the minor in French or Spanish requires 24 hours. The major requires 40 hours of courses. Curriculum guides for the BS programs are available from the offices of modern languages or teacher education.

Elementary courses (101 and 102) do not count toward the hours required for a minor or major.

Majors in modern languages and teacher candidates may be required to take courses abroad in order to complete the departmental requirements. Other language students may choose to study abroad for their own benefit or to complete the language requirement. In all cases the study abroad courses must be approved in advance by the department.

French

FRE 101, 102 **4 hours**
Elementary French

Stresses the use of spoken language, including the essentials of grammar, and reading with an introduction to French culture. Coordinated laboratory activities. *FRE 101 is prerequisite to FRE 102.*

FRE 201, 202 **3 hours**
Intermediate French

Continues the above through reading and studying various themes of general interest. *FRE 201 is prerequisite to FRE 202.*

FRE 221 **4 hours**
French Conversation

Emphasizes the development of facility in oral and written communication in French. Laboratory activities. *Prerequisite: FRE 202 or equivalent. Offered Fall semester of even years only.*

FRE 222 **4 hours**
Contemporary France

Study of contemporary French culture. *Prerequisite: FRE 202 or equivalent. Offered Fall semester of odd years only.* **FRE 221, FRE 222 or instructor's permission is prerequisite to upper division courses.**

FRE 312, FRE 322, FRE 332, and FRE 342

Offered in rotation dependent upon student need and demand.

FRE 312 **4 hours**
Classicism

A survey of French classical literature, with emphasis on the dramas of Corneille, Racine, and Moliere.

FRE 322 **4 hours**
Rationalism and Romanticism

Selected works from these periods in French literature are studied.

FRE 332 **4 hours**
Realism, Symbolism, and Existentialism

Representative works from each of these periods in the literature of France are studied.

FRE 342 **4 hours**
French Linguistics

Examines the phonology of the French language, its word and sentence structure. Contrasts between French and English are stressed.

FRE 360 **1–4 hours**
Independent Study

FRE 370 **1–4 hours**
Selected Topics

FRE 393 **1–4 hours**
Practicum

IAS 493 **4 hours**
Senior Seminar

German

GER 101, 102 **4 hours**
Elementary German

Pronounciation and the essentials of grammar. Oral expression is developed through language laboratory activities. *GER 101 is prerequisite to GER 102.*

GER 201, 202 **3 hours**
Intermediate German

Intensive reading and grammar review. Laboratory activities and independent prose reading involved each term. *GER 201 is prerequisite to GER 202.*

Spanish

SPA 101, 102 **4 hours**
Elementary Spanish

The four skills of hearing, speaking, reading, and writing are taught in this prescribed sequence. The essentials of grammar are studied. Laboratory activities. *SPA 101 is prerequisite to SPA 102.*

SPA 201, 202 **3 hours**
Intermediate Spanish

Emphasis placed on the conversational approach with more reading and writing. *SPA 201 is prerequisite to SPA 202.*

SPA 211 **2 hours**
Communication in Spanish

A promotion of oral proficiency and communicative competence. Class emphasizes daily happenings in the Spanish-speaking world. *Prerequisite: SPA 202 or equivalent. Offered Fall Semester of odd years only.*

SPA 212 **2 hours**
Conversational Perspectives in Spanish

An exploration of the diverse contemporary usages of spoken Spanish within the twenty republics of hispanic culture. Class conducted in everyday Spanish. *Prerequisite: SPA 202 or equivalent.* **SPA 211, SPA 212 or instructor's permission is prerequisite to upper division courses.**

SPA 331, SPA 332, SPA 421 and SPA 422

Offered in rotation dependent upon student need and demand.

SPA 331 **4 hours**
Introductory Spanish American Literature

A study of representative new world Spanish literature to 1880. Selections from pre-Columbian, conquest, colonial and romantic periods are discussed.

SPA 332 **4 hours**
Contemporary Spanish American Literature

Post-romantic readings of Spanish America dating from 1880 to the present day are studied. Selections are for critical analysis as well as enjoyment.

SPA 360 **1–4 hours**
Independent Study

SPA 370 **1–4 hours**
Selected Topics

SPA 393 **1–4 hours**
Practicum

SPA 421 **4 hours**
Spanish Medieval and Renaissance Literature

A study of peninsular Spanish literature from its origin to 1700 includes selections from *El Cid* to Calderon. The historical perspective is considered.

SPA 422 **4 hours**
Spanish Literature from 1700–to present

Selected readings from the neoclassic, regional, romantic and other periods of Spanish literature to the present.

IAS 493 **4 hours**
Senior Seminar

Spanish Abroad

Taylor University provides intercollegiate language study in Costa Rica for intermediate and advanced students of Spanish. The courses are for five weeks of study in the summer. Applicants at or above the intermediate level may participate with permission of the coordinator.

SPA 203s **6 hours**
Applied Aural-Oral Spanish

Intensive conversation dialogue sessions with introduction to reading and grammar review. *Prerequisite: SPA 102 and permission of instructor.*

SPA 303s **2 hours**
Advanced Composition and Conversation II

Theme writing in conversational style, letter writing, and use of idiomatic Spanish are stressed.

SPA 313s **2 hours**
Latin American Literature Survey I

Selections of the New World Spanish Literature before 1880 are read and studied.

SPA 323s **2 hours**
Latin American Literature Survey II

The most outstanding Hispanic American authors since 1880 and selections of their works are studied in a survey manner.

SPA 333s **2 hours**
Sintesis de la cultura latinoamericana I

Consideration of contemporary issues and events in Latin America from a variety of media including newspapers and magazines.

SPA 403s **2 hours**
Advanced Composition and Conversation III

Special advanced guidance is given in oral and written compositions for students completing Spanish 303s.

SPA 433s **2 hours**
Sintesis de la cultura latinoamericana II

A survey of the history, societies, peoples, politics, geography and culture of Latin America.

MUSIC

Professors B. Dickey, Kroeker, Parker, Shulze; Associate Professors A. Harrison and Sloan

Taylor University makes music an integral part of the overall program, serving the needs of the liberal arts student within the context of Christian higher education. The Department of Music is accredited by the North Central Association of Colleges and Secondary Schools, the State Department of Public Instruction of Indiana, the National Association of Schools of Music (NASM), and the National Council for Accreditation of Teacher Education (NCATE).

The music department provides

1. Numerous ensemble opportunities open to both music majors and non-majors
2. Private lessons on all instruments
3. Concerts, faculty recitals, student recitals, and other cultural opportunities
4. A music endorsement for elementary education majors
5. A certificate in church music
6. A certificate in piano pedagogy

For the music major, the department provides the Bachelor of Arts degree, Bachelor of Science degree programs which lead to certification in the field of public school teaching, and the Bachelor of Music degree in sacred music, performance, and music composition. A Music Handbook, outlining all areas of concentration, is available from the Music Department.

Bachelor of Arts Degree

The Bachelor of Arts degree with a major in music is designed for the student who is primarily interested in a liberal arts degree with a focus in music. This broadly-based degree program has as its foundation the study of music history, theory, and literature. This program prepares students for diverse career opportunities in keeping with the liberal arts tradition of Taylor.

Bachelor of Music Degree

Students may select the Bachelor of Music degree, majoring in either Performance (applied music) or in Music Composition. To achieve its vocational purposes, the Bachelor of Music degree provides, at conservatory level, the courses necessary for certain careers in music. These pre-professional degrees are designed for students who plan to continue in graduate school.

The *Performance Major* is offered to students in organ, piano, voice, brass, percussion, strings, and woodwinds. Required courses are: MUS 100-400 (applied major), MUS 100-200 (applied minor), ensembles, MUS 131-132, 141-142, 241-242, 293, 341-342, 351-352, 361-362, 371-372, 472 and IAS 493, plus pedagogy in major/minor instrument and electives. This program prepares students for careers as solo performers, accompanists, private teachers, professional ensemble members or conductors, or as college teachers.

The *Composition Major* consists of MUS 100-400 (major and minor instruments), ensembles, MUS 131-132, 141-142, 221-222, 241-242, 321-322, 341-342, 351-352, 361-362, 371-372, 421-422, 472 and IAS 493, plus electives. This major prepares students for teaching composition in high school or college, for composing and/or arranging sacred or secular music, as well as numerous opportunities in radio, television, and other related fields.

The *Sacred Music Major* prepares the student for a professional career in a church music ministry. Areas of speciality include the administration and direction of a graded choral program with elective courses in Christian Education. Courses include MUS 100-400 (applied major), MUS 100-200 (applied minor), ensembles, MUS 131-132, 141-142, 231, 241-242, 311, 341-342, 351-352, 361-362, 371-372, 440, 472, and IAS 493. Church music courses include MUS 301-302, 320, 393, 401-402, plus six hours electives in Christian Education.

The major in sacred music with Teacher Certification (five years) prepares the student for both the church music ministry and public school teaching. Areas of speciality in teacher education are provided, depending upon the interests and background of the student. (See Bachelor of Science Degree: Choral Area/Instrumental Area.)

Courses include MUS 100-400 (applied major), MUS 100-200 (applied minor), ensembles, MUS 131-132, 141-142, 241-242, 311-312, 341-342, 351-352, 361-362, 371-372, 472, and IAS 493. Church music courses include MUS 301-302, 320, 401-402, plus 11-12 hours electives in Christian Education (Instrumental majors must also take MUS 231-232 and 331-332).

Bachelor of Science Degree

The Bachelor of Science degree, with a major in music, consists of 62 hours of music course work. This degree, leading to teacher certification, prepares the student to teach in the public schools on the elementary, junior high, and senior high school levels. Areas of specialization are provided, depending on the interests and background of the student.

Choral Area

The choral area, designed for voice, piano, and organ majors, prepares students to teach choral music at the elementary and secondary levels (K-12). Courses include MUS 100-400 (applied major), MUS 100-200 (applied minor), ensembles, MUS 131-132, 141-142, 241-242, 311-312, 341-342, 351, 361-362, 371-372, 472, and IAS 493, plus electives.

Instrumental Area

The instrumental area, designed for brass, percussion, string, and woodwind majors, prepares students to teach instrumental music at the elementary and secondary levels. Courses include MUS 100-400 (applied major), MUS 100-200 (applied minor), ensembles, MUS 131-132, 141-142, 231-232, 241-242, 311-312, 331-332, 341-342, 352, 361-362, 472 and IAS 493, plus electives.

General Area

The general area certifies the student to teach music on the elementary and junior high school levels. Students with a concentration in voice, keyboard, or other instrument may elect this program. Courses include MUS 100-400 (applied major), MUS 100-200 (applied minor), ensembles, MUS 131-132, 141-142, 241-242, 311-312, 341-342, 361, 371-372, 472 and IAS 493, plus electives.

Certificate in Church Music

The Certificate in Church Music, consisting of 27 hours of music course work, is designed to prepare students to assist in church music programs. Courses include MUS 100–200 (applied major and minor instruments), MUS 131–132, 141–142, 241, 361, 301, 302 and either 401 or 402.

Certificate in Piano Pedagogy

The Certificate in Piano Pedagogy, consisting of 27 hours, is designed to prepare students to teach private piano. Courses include MUS 100–300 (Applied Piano), 131–132, 141–142, 241, 381–382, and 470.

Music Endorsement

The Music Endorsement program, designed for Art, Elementary Education and Physical Education Majors in Elementary Education, leads to certification for teaching music K–6. Courses include MUS 100–200 (applied major and minor instruments), MUS 131–132, 141–142, 241, 311, 361, and 2 hours of music electives. The student is encouraged to participate in ensembles and other elective courses.

GENERAL INFORMATION

Non-music majors are encouraged to elect music by joining choral and instrumental ensembles. Humanities 250 credit may be obtained through participation in an ensemble.

Music majors may receive instructional experience through the Center for Musical Development (C.M.D.), practicums in the public schools, and student teaching experiences in two public school settings.

The utilization of modern technology is incorporated in some music courses through computer-assisted instruction (using an APPLE computer), the electronic TAPmaster, electronic piano laboratory, and music synthesizer.

Ensembles for Non-Music Majors

All college students are invited to participate in the various musical organizations. Students are encouraged to structure their schedules so that ensembles may be taken for credit. By special permission of the conductor, a student may participate in a musical organization for non-credit. Small ensembles are formed according to demand, either with or without academic credit.

Choral Ensembles	Instrumental Ensembles
Concert Chorale	Brass Ensemble
Chapel Choir	Symphonic Band
Taylor Sounds	Chamber Orchestra
Taylor Singers	Flute Choir
Marion Philharmonic Orchestra Chorus	Taylor Ringers (Bells)
	Jazz Ensemble
	Jazz Combo
	Pep Band

Audition and Registration Information for Ensembles

Auditions—For those ensembles requiring auditions, auditions are held for freshmen and transfer students during the days of orientation at the beginning of the school year. For those students previously enrolled at Taylor University, auditions are arranged through the individual ensemble conductors.

Registration—Students should consult the Taylor University Schedule of Classes during registration for the correct ensemble name and number. Most ensembles may be taken for one credit hour. **This credit may count for the General Education Requirement of Humanities 250—Participation in the Arts.**

Vocal Ensembles

MUS 240, 340
Chorale

A select group of approximately 45 singers, chosen by audition. This SATB ensemble performs a choral repertoire selected from Renaissance through Contemporary periods, including hymns and spirituals. The Chorale tours annually.

MUS 210, 310
Taylor Sounds

A select group of approximately 12 singers, chosen by audition. This SATB ensemble performs a choral repertoire selected from the popular literature, including contemporary Christian and gospel arrangements. The Taylor Sounds perform throughout the midwest on weekends.

MUS 210, 310
Taylor Singers

A select group of approximately 16 singers, chosen by audition. This SATB ensemble performs madrigals and other small ensemble chamber music from all musical periods. For special projects, the ensemble is formed to perform opera and oratorio literature. This ensemble is not offered on a regular basis.

MUS 230, 330
Chapel Choir

The Chapel Choir is a non-auditioned choir, open to students, faculty, staff, and community. The Chapel Choir performs choral music once a week in chapel.

MUS 210, 310
Opera Workshop

The Opera Workshop performs one opera each year. Participation is by audition, which is open to the entire community.

Instrumental Ensembles

MUS 280, 380
Symphonic Band

The Symphonic Band is open to all wind and percussion players by audition. The Symphonic Band performs the classic band repertoire as well as transcriptions and arrangements. The Symphonic Band tours annually.

MUS 210,310
Jazz Band

The Jazz Band is open to all wind and percussion players by audition. The Jazz Band performs contemporary stage band literature as well as the jazz classics. The Jazz Band performs a concert each semester.

MUS 210, 310
Jazz Combo

The Jazz Combo is a selected ensemble from the Jazz Band, open by audition. The Jazz Combo explores improvisatory stylings.

MUS 290, 390
Chamber Orchestra

The Chamber Orchestra is open to all string players by audition. The Chamber Orchestra performs string music from all periods. The orchestra frequently combines with one of the vocal ensembles to present sacred oratorios and cantatas, as well as operas and musicals. Wind and percussion players are occasionally utilized.

MUS 210, 310
Brass Choir

The Brass Choir open by audition, consists of a selected group of brass players, who perform classical brass literature. The brass choir performs frequently in chapel and area churches.

MUS 260, 360
Flute Choir

The Flute Choir consists of any flute students. The students are organized by the flute instructor to explore flute chamber literature.

MUS 391, 392
Marion Philharmonic Orchestra

The Marion Philharmonic Orchestra is a college and community orchestra which performs literature from the standard orchestral repertoire. The Marion Philharmonic Orchestra is open to outstanding instrumentalists by audition with the conductor. The Marion Philharmonic Orchestra performs four annual concerts.

MUS 210, 310
Basketball Pep Band

The Basketball Pep Band is open to all students who enjoy performing contemporary music at home basketball games. (No audition required.)

MUS 210, 310
Taylor Ringers

The Taylor Ringers consists of approximately twelve members, chosen by audition. The Taylor Ringers perform a variety of 4-octave literature of a "moderate to difficult" nature. The Taylor Ringers perform on campus (chapel, banquets), off campus (outreach programs), and tour annually (4-day fall tour).

Audition and Registration Information for Private Lessons

Auditions—For those students desiring to study privately in voice, keyboard, or non-keyboard instrumental areas, auditions are set up individually with director of voice, piano, and instrumental areas during the first week of each semester.

Registration—Students should contact the music secretary during registration for the correct private instruction name and course number. Advancement from one level to another will be on the basis of proficiency, examination, and consent of the instructor. Private instruction may be taken for one to four credit hours. **This credit may count for the General Education Requirement of Humanities 250-Participation in the Arts.**

Admission Information

All prospective music majors should make application well in advance of the term in which they plan to enroll. Both freshmen and transfer students majoring in music must audition either in person or via tape recording. Students should present standard representative works of the major composers in the major applied area. A personal interview with the chairperson of the department is highly advisable, especially for students desiring to apply for music scholarships. Prospective students should contact the music department for audition dates and other pertinent information.

ACADEMIC INFORMATION

All music majors are required to attend student and faculty recitals, concerts, and artist series. Bachelor of Science music majors attend a minimum of 70 concerts during their academic tenure; Bachelor of Arts and Bachelor of Music majors attend 80 concerts.

At the end of each term, an examining committee hears each music major on his/her major instrument.

Each music major gives a Junior Proficiency Recital—20 minutes in length for BA and BM candidates and 15 minutes in length for BA and BS candidates. This recital is presented at the end of a student's sophomore year, or fourth term, in his applied area before the music faculty only, and determines whether a student is to be admitted to the upper division level.

All music majors perform in recitals twice per term. Public recital performance is determined by the instructor. Bachelor of Music students are required to give a full graduation recital in their senior year and Bachelor of Science majors are required to give at least a half recital (public) in their junior or senior year. In a few instances, the Bachelor of Science major may pursue a project, to be decided upon by the music faculty, in lieu of the half recital requirement.

Music majors are required to participate in one of the major ensembles each term while on campus. Instrumental majors normally enroll in instrumental ensembles and voice majors normally enroll in choral ensembles. Keyboard and composition majors are placed in the ensemble program in accordance with their abilities, interests, and the ensemble needs.

Applied Music (Performance)

Private lessons are required of all music majors, but are available for non-majors. All students taking applied music for the first time register for the 100 level. (Exceptions for transfer students are determined by examination.) Advancement from one level to another will be on the basis of proficiency, examination, or consent of the instructor. *Abbreviations: b—brass; o—organ; p—piano; c—percussion; s—string; v—voice; w—woodwind.*

MUS 100 (b.o.p.c.s.v.w.) 1, 2, 3, or 4 hours. May be taken a maximum of four terms, a minimum of one term.

MUS 200 (b.o.p.c.s.v.w.) 1, 2, 3, or 4 hours. Same as 100.

MUS 300 (b.o.p.c.s.v.w.) 1, 2, 3, or 4 hours. Same as 100.

MUS 400 (b.o.p.c.s.v.w.) 1, 2, 3, or 4 hours. Same as 100.

Applied instruction includes the learning of proper practice methods, building good technique, acquiring sufficient repertoire, and gaining a broad knowledge of literature and the composers. Students not majoring in music may enroll for applied lessons suited to their background and needs. No previous training is required. Music majors should consult the Handbook for Music Majors for specific requirements at each level.

Music Education

The two numbers represent lower and upper division credits. Normally freshmen and sophomores register for the 200 level and juniors and seniors register for the 300 level.

MUS 111, 112 **1 hour**
Voice, Piano, String Class (including guitar)

Applied class instruction for students with little or no previous training. Development of techniques with repertory appropriate to the elementary level. *Admission to any applied class requires the approval of the instructor.*

MUS 231 **1 hour**
Instrumental Methods I—Brass Instruments

Class instruction in various brass instruments. Designed to acquaint music education specialists and church musicians with basic problems and teaching techniques of the brasses. *Offered Fall semester of even years only.*

MUS 232 **1 hour**
Instrumental Methods II—Woodwind Instruments

Class instruction in various woodwind instruments. This course is designed to acquaint music education specialists and church musicians with basic techniques for teaching and playing woodwind instruments. *Offered Spring semester of even years only.*

MUS 300 **4 hours**
Music in the Elementary Classroom

The Early Childhood section of Music 300 is open only to students obtaining a kindergarten endorsement, an associate degree in early childhood education, or a bachelors degree in early childhood education. *Offered Fall semester only.* All other elementary education majors take the second semester offering of Music 300. Two sections are offered.

Music 300-A is for individuals with a music background. Music 300-B is for individuals with no music background. *Offered Spring semester only.*

MUS 311 **3 hours**
Elementary School Music

A study of the role of the music specialist in planning musical experiences for children with emphasis on child development, music literature for children, teaching aids, and appropriate teaching practices. Curriculum development and organization of the elementary school are included. Special consideration is given to the materials and techniques associated with the Orff, Kodaly, E.T.M., and Dalcroze methods of instruction. *Offered Fall semester of even years only.*

MUS 312 **2 hours**
Secondary School Music

An investigation of secondary music curricula, organizational structures, and materials. Emphasis is on both non-performance areas (general music, theory, appreciation, and related art courses) and performance-oriented areas (band, orchestra, and choir development). *Offered Spring semester of even years only.*

MUS 331 **1 hour**
Instrumental Methods III—Percussion Instruments

Class instruction in percussion instruments. This course is designed to acquaint music education specialists and church musicians with basic techniques for performing and teaching percussion instruments. *Offered Fall semester of odd years only.*

MUS 332 **1 hour**
Instrumental Methods IV—String Instruments

Class instruction in string instruments. This course is designed to acquaint music education specialists and church musicians with basic techniques for performing and teaching string instruments. *Offered Spring semester of odd years only.*

MUS 361 **2 hours**
Conducting I

An introduction to the psychological, technical, and musical elements of conducting. Score study of choral literature is also stressed.

MUS 362 **2 hours**
Conducting II

Advanced score studies, conducting, and rehearsal techniques of choral and instrumental works. Laboratory experience with various ensembles is included. *Prerequisite: MUS 361 or the equivalent.*

MUS 381 **2 hours**
Piano Pedagogy I

A study of the methods and materials of teaching beginning piano students. Supervised teaching experience is included.

MUS 382 **2 hours**
Piano Pedagogy II

A study of the methods and materials of teaching intermediate and advanced keyboard students. Supervised teaching experience is included. *Offered Spring semester of odd years only.*

MUS 440 **1 hour**
Vocal Pedagogy

Techniques, practices, and materials related to teaching voice. *Offered Fall semester of even years only.*

MUS 462 **1 hour**
Instrumental Pedagogy

A study of advanced band and orchestra techniques and materials for junior and senior high school. Instrumental pedagogy, organization, and recruitment are studied.

Church Music

MUS 202 **1 hour**
Fundamentals of Conducting

Fundamental conducting techniques and training in song leadership for church and school groups are studied as well as basic procedures in choir leading. Practical conducting experience provided. In most cases, song leaders will be required to enroll in this course before being permitted to direct church music off-campus. *Credit does not count toward graduation if student is majoring in music.*

MUS 220 **1 hour**
Church Piano Class

Techniques, sight reading, keyboard harmony, transposition, and modulation adapted to the needs of church services, formal and informal, with emphasis on hymn playing and accompaniments for choir and congregational singing. Included in this course is the evaluation of sacred transcriptions of various types and ranges of difficulty. The course is basically designed for non-music majors. *Prerequisites: Ability to play hymns as written, and permission of instructor.*

MUS 301 **2 hours**
Music Ministry to Children (K–9)

A study of the organization and function of a multiple church choir program (pre-school—grade 9). A study of handbells, Orff instruments, choral literature, and vocal pedagogy for children is included. *Offered Fall semester of odd years only.*

MUS 302 **2 hours**
Music Ministry to Youth and Adults

A study of the organization and administration of the overall church music program. Youth and adult literature selection and rehearsal techniques are presented. *Offered Spring semester of even years only.*

MUS 320 **2 hours (1 + 1)**
Internship

Opportunities provided for students to observe and participate in musical organization of area churches.

MUS 401 **2 hours**
Choral Literature

A survey of anthem literature suitable for use with youth and adult choirs in the church. *Offered Fall semester of even years only.*

MUS 402 **2 hours**
Hymnology and Church Liturgy

A survey of hymnody from earliest Old Testament references to the present. The Christian Year is examined as well as church organization. *Offered Spring semester of odd years only.*

Music Theory, History, and Literature

MUS 131 **1 hour**
Introduction to Music I

An introductory course exploring careers in music, the elements of music, basic music forms, styles, and an overview of the history of Western music. The course is designed for the music major, music minor and other students. *Offered Fall semester only.*

MUS 132 **2 hours**
Introduction to Music II

A continuation of MUS 131. *Prerequisite: MUS 131. Offered Spring semester only.*

MUS 141 **4 hours**
Basic Music Theory

A study of basic fundamentals and structural elements of tonal music. Principles of part-writing, elemental forms, melodic, harmonic and rhythmic concepts are learned through written, analytic and keyboard experience. *Offered first semester and interterm.*

MUS 142 **4 hours**
Advanced Music Theory

A continuation of MUS 141. Includes non-harmonic tones, chromatic harmonies including secondary dominants; diminished and half-diminished seventh chords; Neapolitan Sixth; Italian, German and French Augmented Sixths and the doubly Augmented Sixth. The Art Song and nineteenth century Character Pieces are studied with original compositions of each. *Prerequisite: MUS 141 or equivalent.*

MUS 241 **2 hours**
Sight Singing and Ear Training I

Skill development stressed in the areas of sight-singing (the ability to read/interpret musical symbols), ear-training (both written and aural skills), and rhythmic responsiveness accomplished through class performance, the use of the electronic TAPmaster, and an APPLE computer.

MUS 242 **2 hours**
Sight Singing and Ear Training II

Continuation of MUS 241. Intermediate and advanced level work is in the areas of sight-singing, dictation (intervallic, melodic, and harmonic), rhythm (irregular meter), and analysis (small forms). *Prerequisite: MUS 241.*

MUS 283 **1 or 2 hours**
Contemporary Christian Music

This course involves individual projects in literature, analysis, arranging or performing of Contemporary Christian Music. The nature of the project will be determined by the knowledge, abilities and interests of the individual student. *Offered Interterm only.*

MUS 293 **3 hours**
Introduction to Electronic Music

An introduction to the aesthetics, materials, and techniques of the several types of electronic music. Emphasis is placed on working with the synthesizer, tape recorders, and splicers with a view to actually creating an electronic composition as a final project. Outside reading on the subject is required as an adjunct part of the course. *Offered Interterm only.*

MUS 221, 222 **2 hours each**
Composition I and II

Original composition in advanced forms. Emphasis is on development of individual style of expression. Taught as a private lesson with requisite fee.

MUS 321, 322 **2 hours each**
Composition III and IV

Continuation of the project begun in 221-222. There is an introduction to the technique of electronic music and the composition of several pieces in this medium using the music synthesizer and related equipment. Taught as a private lesson with requisite fee.

MUS 341 **2 hours**
Counterpoint

Theoretical approach to the fundamental principles of eighteenth century polyphonic composition; a study of the formal designs and methods of structual treatment with written and analytical experience in this harmonic-contrapuntal concept of music.

MUS 342 **2 hours**
Form and Analysis

Analysis of representative works of the eighteenth and nineteenth centuries, with emphasis on the structure and stylistic aspects of music.

MUS 351 **2 hours**
Choral Arranging

A course on the ranges, tonal possibilities, and technical limitations of the different voices; the analysis of scores of standard choral compositions. Arranging and adapting scores for various vocal combinations is included.

MUS 352 **2 hours**
Instrumental Arranging

Band and orchestral instruments studied with a view to practical and effective writing. Arranging of compositions for various instrumental combinations is included.

MUS 370 **4 hours**
Music and World Cultures

An investigative study of selected non-western cultures and the role of music within the cultures. Four components are: (1) Basic principles of culture and basic principles of music; (2) Japanese culture and music; (3) African culture and music (East Africa and West Africa); (4) Culture of student's choice. A cross-cultural course open to all students.

MUS 371 **3 hours**
History-Literature I

A study of the development of music from the pre-Christian through the Baroque eras. Stylistic cognizance is acquired through aural experience.

MUS 372 **3 hours**
History-Literature II

A study of the development of music during the eighteenth and nineteenth centuries and concomitant phases of social and cultural practices of the times. Stylistic perception is gained through audio-visual and aural experience.

MUS 421, 422 **2 hours each**
Composition V and VI

Continuation of projects begun in 321-322 in preparation for the senior recital. Taught as a private lesson with requisite fee.

MUS 442 **2 hours**
Vocal Literature

A study of English, Italian, German, French, and American literature since the late Renaissance. Emphasis is on stylistic interpretation and vocal appropriateness. Music is performed by class participants. Recordings are also utilized. *Offered 1988-89 and in alternate years.*

MUS 470 **2 hours**
Piano Literature

A study of piano works chosen from a given era or composer. Lecture, performance, and recorded examples are used. *Open to piano majors, Certificate in Piano Pedagogy, and others by permission of the instructor. Offered 1989-90 and in alternate years.*

MUS 472 **4 hours**
History-Literature III

A study of the development of music from the year 1900 to the present. Representative music and concomitant phases of political history and art are correlated with aural and analytical techniques of this period of history. *Offered Spring semester of odd years only.*

Special Topic Courses

MUS 360 **1-4 hours**
Independent Study

MUS 170, 370 **1-4 hours**
Selected Topics

MUS 393 **1–4 hours**
Practicum

MUS 450 **1–4 hours**
Directed Research

MUS 480 **1–4 hours**
Seminar

MUS 490 **1–2 hours**
Honors

IAS 493 **4 hours**
Senior Seminar

PHILOSOPHY

See *Religion, Philosophy, and Biblical Languages*

PHYSICAL EDUCATION

See *Health, Physical Education, and Recreation*

PHYSICS

Head, Associate Professor R. Roth; Associate Professor Wolfe

The Physics Department offers instruction in physics, astronomy, and physical science. A major leading to the Bachelor of Arts degree consists of 32 hours, including 22 hours of upper division courses. MAT 431, CHE 431, and NAS 480 are required.

PHY 120 **4 hours**
Experiences in Physical Science

Intended for non-science majors. Selected topics from physical science are studied to afford insight into man's current understanding of natural phenomena, the models used to represent nature, and methods used in the quest to fathom the physical universe. Three lecture periods and one recitation period each week. One two-hour laboratory session biweekly.

PHY 121 **5 hours**
Survey of Physical Science for Elementary Teachers

Intended for elementary education majors as a content course, not a methods course. Selected topics from astronomy, physics, chemistry, meteorology, and geology are studied with special emphasis on their application in the elementary classroom. Student projects include an actual teaching experience in the elementary school. Four lecture periods and one 2-hour laboratory session each week. *Offered Fall semester only.*

PHY 201 **3 hours**
Introductory Astronomy

A descriptive course about the solar system, stars and stellar evolution, galaxies and the universe. Recent findings of space exploration and radio astronomy are included. Telescopes are provided for viewing sessions.

PHY 211, 212 **5 hours each**
University Physics

A study of mechanics, heat, and sound in the first term; magnetism, electricity, and light in the second term. *Offered annually for physical science majors and separately, during alternate odd years for life science majors.*

PHY 311 **4 hours**
Modern Physics

An introduction to modern physics including special relativity, quantum effects of radiation and particles, atomic structure and elementary particles. Three lectures and two hours of laboratory per week. *Offered alternate years fall term.*

PHY 312 **4 hours**
Nuclear Radiation Physics

A study of natural and induced radioactivity, nuclear radiation detection, charged particle interactions and neutron physics. Three lectures and two hours of laboratory per week. *Offered alternate years spring term.*

PHY 321 **3 hours**
Electricity and Magnetism

Vector field approach to electromagnetic theory. Includes electrostatics, magnetostatics, induction, dielectric and magnetic materials, and Maxwell's equations. *Corequisite: PHY 341. No lab, offered alternate years fall term.*

PHY 322 **3 hours**
Waves and Physical Optics

Applications of Maxwell's equations including electromagnetic waves, wave guides, diffraction, and Fourier optics. *Prerequisite: PHY 322. No lab, offered alternate years spring term.*

PHY 330 **1 hour**
Advanced Physics Laboratory

Majors must have 2 credit hours of PHY 330 to graduate. The experiments to be performed will be selected from the areas of electrical measurements, optics, modern physics, solid state physics or nuclear physics. The actual experiments selected will depend on the student's interests and background. *Offered as needed for Junior or Senior Physics major.*

PHY 331 **4 hours**
Introduction to Electronics

Introductory concepts and experiments designed to acquaint students with the operation and application of modern electronic devices and components. The implications of this rapidly changing technology on society are discussed. Experiments dealing with elementary concepts of electricity, electrical measurements, diodes, transistors, integrated circuits, and a variety of solid state devices as well as digital electronics are provided. Separate instruction modules are available for science and non-science students. Three hours lecture and one three-hour laboratory per week. *No prerequisites.*

PHY 341 **3 hours**
Math Methods in Physics and Engineering

An applied approach to various mathematical topics including linear algebra and matrices, vector field theory, partial differential equations, Fourier series and transforms and complex analysis. *Prerequisite: MAT 431. Offered fall term.*

342 **3 hours**
Analytical Mechanics

An intermediate treatment of mechanics emphasizing dynamics. Includes central forces, many particle systems, rigid bodies, and small oscillations. The Lagrangian and Hamiltonian formulations are introduced and used for much of the term. *Prerequisite: PHY 341. Offered alternate years spring term.*

PHY 370 **1–4 hours**
Selected Topics

PHY 393 **1–4 hours**
Practicum

412 **3 hours**
Quantum Mechanics

A quantum mechanical treatment of the free particle, the harmonic oscillator and the hydrogen atom. Includes approximation methods, creation and annihilation operators, and an introduction to angular momentum. *Prerequisites: PHY 311, 341. Offered alternate years spring term.*

PHY 490 **1–2 hours**
Honors

IAS 493 **4 hours**
Senior Seminar

POLITICAL SCIENCE

Head, Professor, P. Loy; Associate Professor, Hoffmann

Political science studies the structure and the processes of government, contrasting philosophies about how government should be ordered as well as various opinions about what policies government should pursue and by what means.

A Bachelor of Arts degree with a major in political science consists of 32 hours. All majors must include POS 211, 232, 361, and 362. In addition, all majors must take one of the three comparative Politics courses, POS 301, 402, or 412, and one of the following courses: POS 312, 331, and 342. Political science majors are encouraged to take NAS 240. Students wishing to pursue a Bachelor of Science in political science/systems must meet the political science requirements and the systems requirements identified under information sciences in an earlier section of this catalog.

POS 100 **4 hours**
American Politics

Primary emphasis is given to the democratic character of American government. The course will consider the constitutional system and economic policy as well as the institutions of American government.

POS 211 **4 hours**
World Politics

A study of political and economic relations among nation-states. Special attention is given to the problems of war, poverty and the possibilities for transnational cooperation.

POS 232 **3 hours**
Methods of Political Analysis

Designed for political science majors, the course explores the nature of political science and introduces the student to the major theoretical approaches to the discipline.

POS 301 **4 hours**
Western Europe and Japan

An examination of major western European governments and Japan with an emphasis on political culture, institutions and public policy. *Offered Fall semester of even years only.*

POS 312 **4 hours**
Foundations of Public Policy

Describes and examines the voting behavior of the American people and the functions and interactions of political parties, interest groups and public opinion in a democratic polity. *Offered Spring semester of odd years only.*

POS 331 **4 hours**
Development of Public Policy

An extensive examination of the interaction between Congress and the Presidency in making public policy. The course focuses on major theories of public policy and examines governmental policy-making from these perspectives.

POS 342 **4 hours**
Public Administration

An examination of structure, function, organization and personnel of public administration. Emphasis is on American bureaucracy and the problems of public control and bureaucratic responsibility. *Offered Spring semester of even years only.*

POS 351 **3 hours**
Political Sociology

See SOC 351

POS 352 **4 hours**
American Foreign Policy

A study of contemporary American foreign policy processes, focusing on the chief policy-making institutions. Special attention is given to how domestic and international factors influence them and to current issues in American foreign policy. *Offered Spring semester of odd years only.*

POS 360 **1–4 hours**
Independent Study

POS 361 **4 hours**
Foundations of Political Philosophy

An examination of Western political thought from classical Greece through the 18th century. It includes a study of fundamental political concepts and perennial issues in political philosophy.

POS 362 **4 hours**
Modern Political Philosophy

A study of the philosophical basis of contemporary political thought and political ideologies.

POS 372 **5 hours**
American Constitutional Development

See HIS 372

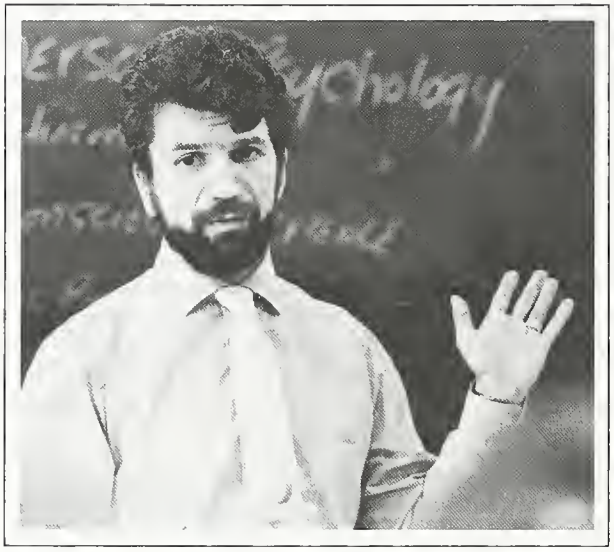
POS 402 **4 hours**
Comparative Communism

The course focuses on the Soviet political system (including foreign policy) and uses this as a basis for a comparative treatment in which a wide variety of communist states and movements are studied in the context of their national cultures. *Offered Fall semester of odd years only.*

POS 412 **4 hours**
Middle East Politics

A study of the political systems located in the area extending from Morocco to Pakistan from an historical and cultural perspective. Special attention is given to political development, the influence of Islam, U.S. and Soviet involvement in the area and the Palestine problem. *Offered Spring semester of even years only.*

IAS 493 **4 hours**
Senior Seminar



PSYCHOLOGY

Head, Professor Cosgrove; Associate Professors Lund and Meyer; Assistant Professors Maloney and Snyder

Psychology involves the study of human and animal behavior. Each course seeks to integrate psychological data with major biblical beliefs. The aim of the department is training in the field of psychology Christian students who, upon graduation, are prepared for further academic studies and/or professional responsibilities. The BA in psychology and the BS in psychology/systems are offered. A BS degree may be taken with a major in education and a teaching area in the social sciences. Psychology could be selected as a second teaching area.

A major in psychology consists of 38 semester hours. In order to insure a breadth of exposure to the discipline of psychology, the following courses must be taken: PSY 200, 251, 310, 352, 372 and IAS 493. A student may choose a minor in psychology by taking PSY 200 and 15 additional hours in psychology.

Students anticipating graduate study are encouraged to take BIO 241, COS 200, PSY 230, 300, 400, 411, 422, and 441.

PSY 125 **2 hours**
Intrapersonal Psychology

The study of how to process the emotional dynamics of anger, guilt, anxiety, and grief, to become mature, emotionally integrated social beings.

PSY 170 **1–4 hours**
Selected Topics

PSY 200 **3 hours**
Introduction to Psychology

An introduction to the subject matter and methods of psychology. Topics on human development, personality, learning, sensation, perception, motivation, emotion, mental health, and social psychology are considered.

PSY 230 **4 hours**
Statistics and Design in Psychological Research

An introductory course which surveys common statistical concepts in psychological research. It also examines and critiques the major research designs used in psychology today. *Offered Fall semester only.*

PSY 240 **3 hours**
Child Psychology

This course not only deals with the subject matter of developmental psychology (such as cognitive development, physical development and socio-emotional development) but attempts to apply the subject matter to those actively working with children, such as parents, teachers, coaches, etc. Much of the in-class content deals with practical topics such as developing self-esteem in children, stimulating intellectual development and disciplining the child. Further, currently relevant topics such as child abuse, abortion, broken homes, single parenting and adoption are examined. The course lays a strong biblical foundation upon which to build an interaction with the child. *For non-majors; majors take PSY 251.*

PSY 250 **3 hours**
Life Span Development

This course is designed to provide a general overview of the developmental process in man from conception through death and dying. Included are the physical, emotional, cognitive and social developments.

PSY 300 **4 hours**
Abnormal Psychology

A study of the nature, causes and treatment of maladaptive behavior, with special consideration being given to the symptoms and dynamics of psychological disorders. *Prerequisite: 3 hours in PSY.*

PSY 310 **3 hours**
Integration of Psychology and Christianity

An examination of the relationship between psychology and Christian beliefs about human nature. Topic areas include the presuppositions of modern psychology, the Christian view of man, and tension areas between psychology and theology. *Offered Spring semester only.*

PSY 321 **3 hours**
Social Psychology

A study of how the thought, feeling, or behavior of individuals is influenced by the actual, imagined, or implied presence of others. Topics include cooperation and competition, aggression, attitudes and their change, affiliation, and conformity, along with others. *Prerequisite: 9 hours in PSY. Offered Spring semester only.*

PSY 331 **3 hours**
Biblical Psychology

A survey of Biblical teaching on the nature of man and its relationship to emotional problems and solutions to emotional problems.

PSY 340 **3 hours**
Adolescent Psychology

This course deals with the "problems" of adolescence including peer pressure and conformity, adult-adolescent conflicts, problems growing out of cognitive changes, adjustments to physical changes, struggles with identity, etc. Current issues such as drug and alcohol use and teen sexuality are discussed. The focus is on a practical application of the research literature with an integration of biblical principles and is designed for the non-major. *Majors take PSY 352. Offered Spring semester only.*

PSY 360 **1–4 hours**
Independent Study

PSY 370 **1–4 hours**
Selected Topics

PSY 372 **3 hours**
Research in Psychology

Research methods in psychology are studied and critiqued. Students are involved in laboratory research projects and the writing of research reports. *Prerequisite: PSY 230. Offered Spring semester only.*

PHY 381 **3 hours**
Applied Psychology

Topics covered range from industrial psychology to legal issues. This course may be repeated for credit, if the topic is a different one.

PSY 390 **3 hours**
Christian Marriage

A practical and applied course which integrates the psychological literature and biblical teaching in the subject areas of the marriage relationship. These areas include marriage foundations, dating and engagement, pre-marital sexual behavior, singleness, mate selection, marriage success and satisfaction, love and infatuation, marriage roles, communication and conflict and divorce.

PSY 393 **1–4 hours**
Practicum

PSY 400 **3 hours**
Theories of Personality

A study of the major current systematic psychological theories of personality. Consideration is given to their underlying assumptions, usefulness for research, and therapeutic practice. *Offered Fall semester only.*

PSY 411 **3 hours**
Learning: Theory and Application

The study of major learning theories and their application to advertising, education, counseling, and daily problems of life. *Offered Spring semester only.*

PSY 420 **3 hours**
Cognition

The scientific study of the cognitive functions of memory, attention, pattern recognition, imagery, decision making, problem solving, and creativity, with application for implementing this information. *Offered Spring semester only.*

PSY 422 **3 hours**
Psychological Testing

A study of the principles of psychological testing, considering both the theoretical and practical foundations underlying the construction, use, and interpretation of various psychometric instruments. The student is given opportunity to administer, score, and interpret selected instruments. *Prerequisite: PSY 230. Offered Spring semester only.*

PSY 431 **3 hours**
History and Systems of Psychology

Survey of the history of psychology from early Greek philosophers through modern fields of psychology, including structuralism, functionalism, behaviorism, Gestalt psychology, humanistic psychology, and transpersonal psychology. *Offered Fall semester only.*

PSY 441 **3 hours**
Physiological Psychology

A study of the neurophysiology underlying human behavior. Emphasis is given to central nervous system mechanisms which mediate sensation, consciousness, learning, motivation, and emotional behavior. *Offered Fall semester only.*

PSY 450 **1–4 hours**
Directed Research

PSY 461 **3 hours**
Fundamentals of Counseling

This course will provide an analysis of the major theories and approaches to counseling, correlating them with counterpart theories of personality and learning. Each major theory will be dealt with in light of biblical revelation. As a result, the student is encouraged to formulate a tentative personality theory of counseling consistent with biblical truth. *Prerequisite: 6 hours in psychology including PSY 300. Offered Fall semester only.*

PSY 480 **1–4 hours**
Seminar

IAS 490 **1–2 hours**
Honors

IAS 493 **4 hours**
Senior Seminar

RELIGION, PHILOSOPHY AND BIBLICAL LANGUAGES

Head, Professor Nygren; Professors Corduan, Pitts; Associate Professor Helyer; Assistant Professors Heth, House, Newton

The Department of Religion, Philosophy and Ancient Languages offers four majors: Biblical literature, religious studies, Christian education, and philosophy of religion. Upon declaring a major in the department, the student will be given a guide. This will help prepare a program of study leading to the satisfactory completion of a comprehensive examination covering the major requirements listed below, the student's personal interests and professional needs. The senior seminar course (IAS 493) is required of all students. REL 342 is required of all student pastors regardless of their major fields of study. Credit toward a major will not be given for cross referenced courses meeting general education requirements in other departments.

Bachelor of Arts

For a major in Biblical literature, religious studies, Christian education, or philosophy of religion, a minimum of 40–43 hours is required. Specific cognate requirements are listed below.

Bachelor of Science

May be taken with a systems analysis or environmental science cognate. Other requirements for the major are identical.

Certificate of Religious Studies

A "Certificate in Religious Studies" is available to students in any major program who complete courses totaling at least 15 credit hours beyond the general education requirements. Specific details and approval for the pro-

gram may be secured in conference with the head of the department. A special schedule is provided for education majors who wish to complete the certificate in preparation to teach in Christian schools. Specific details for those students is available from the director of education.

Certificate in Missions

A "Certificate in Missions" is available to students in any major program as well as to students majoring in religion and philosophy. The student must complete the following courses: BIB 330, REL 311, 321, 391, and 432. In addition, the student must complete a "cross cultural experience" which may or may not be for credit. Suggestions include: Taylor World Outreach, semester abroad, Wesleyan Urban Coalition, "Lighthouse", REL 393 Practicum. Approval is to be secured in advance from the department coordinator of missions studies. Further, students must complete two additional courses which will enhance the purpose for selecting the certificate program. Courses in mass communication, environmental science, Biblical literature, linguistics, history and geography of a particular region, would be appropriate. Approval must be secured from departmental coordinator.

Certificate in Youth Ministry

The "Certificate in Youth Ministry" is an academic program for students from various majors interested in developing their skills in ministering to youth. This program will also provide Christian education majors with an optional area of specialization in youth ministry. The "Certificate in Youth Ministry" will prepare graduates for ministries such as InterVarsity, Campus Crusade and Youth for Christ. In addition, the certificate could be earned in combination with any major as an ideal way for students to integrate career and ministry goals. Students majoring in Biblical literature, religion, or Christian education who are planning on working with youth could strengthen their credentials by adding the certificate.

The student must complete 18 hours including the following courses: CED 100, 221, 271, 312, 322, 393 (2 hrs.), and PSY 251.

Minor Fields of Study

Minors are designed to serve the needs of students who wish to study in greater depth in one of the areas in the department. Minors are helpful to students in all majors but especially pre-seminary students majoring in other departments.

Wesleyan Urban Coalition

This co-operative venture provides opportunities for Religion, Philosophy and Biblical Languages majors to live and learn in the city of Chicago. The Coalition focuses both on the study of urban life and systems and on practical education in ministry.

BIBLICAL LANGUAGES

Primarily, the courses enable one to read and study the New Testament in the original language. Enrichment of historical concepts of communication, depth and breadth of Christian perspective, and cultural appreciation of the Biblical world are secondary concerns of ancient language studies. In addition, the courses meet the Taylor language requirements for graduation and satisfy or exceed language entrance requirements of most seminaries.

ANL 201,202 **4 hours**
Elementary New Testament

A study of the fundamental principles of New Testament (Koiné) Greek grammar. Emphasis is placed on the mastery of forms and memorization of vocabulary. John's First Epistle will be translated during the last half of the Spring Semester.

ANL 301 **4 hours**
Greek Grammar and Syntax

An intermediate Koiné Greek grammar course that places special emphasis on the more exegetically significant details of Greek grammar

and syntax by reading and analyzing selected portions of the Greek New Testament. *Offered Fall semester only.*

ANL 302 **4 hours**
Exegesis of the Greek New Testament Text

An introduction to the procedure and practice of Greek exegesis. Emphasis is placed on the "how-to's" of doing textual criticism, word studies, outlining the argument of a passage, validating exegetical decisions, and the proper use of exegetical tools. *Offered Spring semester only.*

ANL 401, 402 **4 hours**
Advanced Exegesis of the Greek New Testament Text

An extension of skills developed in ANL 301, 302.

ANL 450 **1–4 hours**
Guided Research in Hellenistic Language

Investigation of a project area selected individually by each student in consultation with the department. Work is carried on by the student in some adequate library of ancient literature, or in a manuscript museum. Results of the study are formalized in a paper of the student's own planning.

BIBLICAL LITERATURE

A major in Biblical literature consists of 43 hours of credit. At least 33 must be in that area of concentration, including required courses BIB 272, 480, and IAS 493. Either PHI 262 or PHI 371 is also required as part of the 43-hour major.

A minor in Biblical literature consists of 24 hours of credit. In addition to BIB 110 and 210, two courses in Old Testament and two courses in New Testament are required plus one other course from the department except general education requirements.

BIB 103 **3 hours**
Introduction to Holy Land Studies

A study of the Biblical background and contemporary significance of Israel. Taught in Israel during January.

BIB 110/310 **3 hours**
Biblical Literature I

A course which has as its primary content the Old Testament, with special attention given to the law, the prophets, and the history of Israel. Lower/upper division credit, with additional requirements for upper division credit, designed primarily for transfer students.

BIB 210 **3 hours**
Biblical Literature II

A course which includes a foundation in New Testament study with focus on Jesus Christ as portrayed in the Gospels and Epistles. Also included is a series of explorations into the relevancy of Christ to modern life. *Prerequisite: BIB 110/310.*

BIB 301 **4 hours**
Selected Readings from the Greek New Testament

See ANL 301.

BIB 302 **4 hours**
Exegesis of New Testament Greek Text

See ANL 302.

BIB 320 **3 hours**
Pentateuch

Emphasizes the historical narrative and the content of the Law of God. Special attention is given to the Genesis account of the origin of the cosmos, man, sin, and salvation. The authorship of the Pentateuch is considered. *Offered Spring semester.*

BIB 330 **3 hours**
Acts and the Early Church

A historical study with particular attention given to the missionary expansion of the early church, the work of the Holy Spirit, and the place of the church in the world. *Offered Spring semester.*

BIB 331 **3 hours**
Pauline Epistles

Attention given to the life, ministry, and writings of Paul. The doctrinal, pastoral, and personal epistles of Paul are studied with reference to their geographical and historical settings, the organization of the Apostolic Church, and the development of Christian doctrine. Careful exegesis is made of selected portions of each epistle. *Offered Fall semester.*

BIB 332 **3 hours**
Hebrews, General Epistles, Revelation

Attention given to the problems of the authorship of Hebrews and its relation to the ceremonies of the Old Testament. The authorship, time, and background of the General Epistles are studied. The contribution of each book to the New Testament doctrine is evaluated. A study is

made of the place of Revelation in the New Testament canon and relation to the Bible as a whole. *Offered Spring semester.*

BIB 340 **3 hours**
Hebrew Prophets

Selected major and minor prophetic works of the Old Testament with special emphasis given to the historical background, Messianic message and content, together with specific theological concepts and teachings which are pertinent to modern times. *Offered Fall semester.*

BIB 341 **3 hours**
The Gospels

A course in which the life and teaching of Jesus as set forth in the Synoptic Gospels are examined. Special attention will be given to the synoptic problem and the literary and theological characteristics of each individual gospel. *Offered Fall semester.*

BIB 350 **3 hours**
Poetic and Wisdom Literature

Hebrew poetry and wisdom as presented in the books of Job, Psalms, Proverbs, Ecclesiastes, Lamentations, and the Song of Solomon.

BIB 362 **4 hours**
Jewish History, Culture and Geography

The development of Mishnaic Judaism traced beginning with the Ezra literature through the Talmudic period. *Offered alternate years.*

BIB 372
Inductive Study of the Bible

(See CED 372)

BIB 451 **3 hours**
Old Testament Historical Geography

The story of Israel as given in the Old Testament books from the Patriarchal period through the Exile. Special attention is given to relevant archaeological discoveries and geography. *Offered alternate years.*

BIB 462 **3 hours**
Biblical Theology

A study of the Bible and its central message and meaning. The Bible records a special kind of history revealing God's will and purpose. This special history gives essential meaning to all human life and destiny.

RELIGIOUS STUDIES

A major in Religious Studies requires a total of 40 hours, at least 30 of which must be in that area of concentration including REL 480 and IAS 493 and REL 262 or PHI 371.

REL 103 **3 hours**
Introduction to Holy Land Studies

REL 230 **3 hours**
American Religious History

See HIS 230

REL 252 **3 hours**
Cultural Anthropology

See SOC 252

REL 262 **3 hours**
Contemporary Issues

See PHI 262

REL 311 **3 hours**
The Christian World Mission

A correlated study of the history of Christian missions in relation to the methods employed in the cultural context of the various periods from the Apostolic inception, through the Middle Ages, the modern era, and the contemporary period of the young churches in the various areas of the world. *Offered alternate years.*

REL 313 **3 hours**
Historic Christian Belief

A survey of Christian belief as developed during the history of the church. Such topics as the incarnation, the Trinity, and the atonement will be considered. *Required of all students.*

REL 321 **4 hours**
Religions of the World

See PHI 321

REL 352 **4 hours**
History of the Middle Ages

See HIS 352

REL 382 **4 hours**
Renaissance and Reformation

See HIS 382

REL 391 **2 hours**
Philosophy and Methods of Missions

The principles and methods of Christian missions from Christ to the present time are studied. The biblical basis and the prime motivating factors, direct evangelistic, educational, medical, industrial, literary, radio, and occupational missionary methods are given special attention. The preparation of the missionary for his task also is considered. *Offered alternate years.*

REL 402 **2 hours**
Hymnology and Church Liturgy

See MUS 402

REL 432 **2 hours**
Mission Area Studies

A specialized study of one of the several mission fields, such as Urban America, South Appalachian Region, Latin America, Africa, India, Japan, or China. The geography, people, history, economics, sociology, government, language, religion, and the history and methods of Christian missions are considered.

REL 452 **3 hours**
Philosophy of Religion

See PHI 452

CHRISTIAN EDUCATION

A major in Christian Education requires at least 43 hours of credit. Included must be the following courses in addition to the general eduction requirements: CED 100, 232, 242, 262, 272, 351, 352, 371, 393, 421; two courses in Biblical Literature; BIB 462; either PHI 262 or PHI 371; and PSY 250. Four semesters of involvement in an approved ministry are required to fulfill the "Field Ministry Competency" for the major. Students are encouraged to fulfill their language requirement by studying Greek.

A minor in Christian Education requires at least 21 hours including CED 100, 242, 262, 272, 351, 352, and 371. Two semesters of involvement in an approved ministry are required to fulfill the "Field Ministry Competency" for the minor.

CED 100 **3 hours**
Introduction to Christian Education

A course which focuses on the purpose and scope of Christian education and the types of ministries available to majors.

CED 221 **3 hours**
Ministry to Youth

A general study of the various programs used to meet the needs of junior high, senior high, and college age youth through church and parachurch ministries.

CED 232 **3 hours**
History of Religious Education

A course focusing on the major individuals and movements influencing the field of religious education from Biblical times until the present.

CED 242 **3 hours**
Theoretical Foundations of Christian Education

A course exploring the various current theories of Christian education. *Prerequisite: CED 232.*

CED 262 **3 hours**
Personal Development

A course designed to facilitate the student's personal growth and development through the integration of theological truth into life.

CED 272 **3 hours**
Inductive Study of the Bible

Specific application will be made to various literary types. A selected book will be analyzed. Detailed analyses of selected portions of both the New and Old Testaments.

CED 312 **2 hours**
Evangelism in Youth Ministry

An intensive study of the various theories and approaches used to prepare junior high, senior high, and college age youth to become Christians.

CED 322 **2 hours**
Discipleship in Youth Ministry

An intensive study of the theories and approaches used to help junior high, senior high, and college age youth to grow and develop in their faith.

CED 351 **3 hours**
Teaching and Learning Strategies

A practical course designed to help the student teach the Bible more effectively by the use of an educational strategy. A teaching lab and supervision is included and competency in the use of instructional media is required. *Prerequisites include CED 242, 272, or permission of the instructor.*

CED 352 **3 hours**
Program and Curriculum Development

A course which focuses on the development of educational programs within church and parachurch ministries. Emphasis is on the published curricula and the development of curricular writing skills. *Prerequisite: CED 351.*

CED 371 **3 hours**
Leadership Development

A course designed to facilitate the development of the student's skills in leadership, organization and management related to specific ministry situations.

CED 393 **1–4 hours**
Christian Education Practicum

A practical involvement in ministry (preferably during the summer after a student's junior year).

CED 421 **3 hours**
Specialized Ministries

A course designed to train students how to develop specialized ministries to meet the needs of persons at various stages of development. The particular focus of the course will be on critical areas of need (single parents, family ministry). *Prerequisites: CED 351, 352.*

PHILOSOPHY OF RELIGION

A major in philosophy of religion requires a total of at least 43 hours with a minimum of 24 in appropriate philosophy courses, including PHI 452 and 16 hours in religion courses. *(Courses listed under Christian Education are not applicable.)*

A minor in Philosophy of Religion requires 201, 202, 413, plus PHI electives totaling 17 hours.

PHI 201 **4 hours**
Logic

A study of classical and contemporary formulations of the principles of human thought. Proper deductive and inductive logic is contrasted with fallacies. Categorical logic, truth functional logic, quantificational logic. *Offered Spring semester of odd years only.*

PHI 202 **4 hours**
History of Philosophy

A survey of philosophical thought beginning with the early Pre-Socratic Greeks, concluding with contemporary movements such as logical positivism and linguistic analysis. *Offered Spring semester of odd years only.*

PHI 262 **3 hours**
Contemporary Issues

A systematic analysis of pressing issues such as sexual morality, divorce, abortion, homosexuality, euthanasia, war and peace.

PHI 300 **2 hours**
Great Figures

A study of one of the significant philosophers in his environment, e.g. Aquinas and middle ages, Marx and 19th century. *Course may be repeated as topic changes.*

PHI 321 **4 hours**
Religions of the World

World living religions studied historically and systematically; emphasis on Oriental ethnic philosophies; comparison of structure and world views.

PHI 342 **2 hours**
Aesthetics

The psychology of the aesthetic experience and an interpretation of the philosophy of aesthetic values studied. This is an excellent course for the philosophy major and is of special cultural value for the general student. Required of all art majors. *Offered Spring semester of odd years only.*

PHI 371 **3 hours**
Principles of Ethics

A survey of the theoretical foundations of ethics, such as the distinction between absolutist and relativistic views, the nature of justice, or the need for rules. Readings from classical and modern authors are included. *Offered Fall semester of even years only.*

PHI 413 **3 hours**
Contemporary Christian Belief

An analysis of contemporary society and its integration with Christian thought. An introduction to Christian apologetics. *Prerequisite: REL 313. Required of all students.*

PHI 452 **3 hours**
Philosophy of Religion

A study of the problems and conceptions of religion together with their implications for theism and Christianity. *Offered Spring semester of even years only.*

Practicum, Seminar, and Capstone Courses

REL 360 **1–4 hours**
Independent Study

REL 370 **1–4 hours**
Selected Topics

REL 393 **1–4 hours**
Practicum

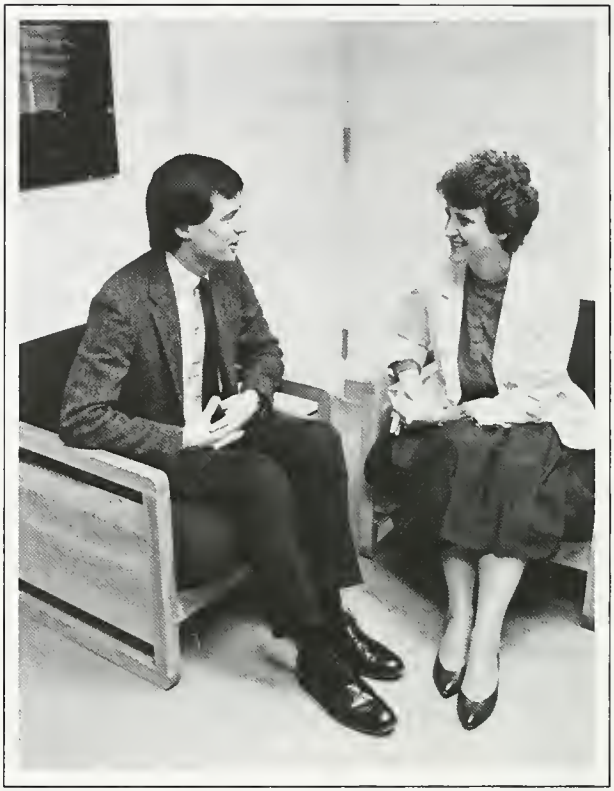
REL 480 **1–4 hours**
Seminar

REL 490 **1–2 hours**
Honors

IAS 493 **4 hours**
Senior Seminar

SOCIAL WORK

Head, Associate Professor Jackson; Associate Professor Wallace, Assistant Professors Rohrman and Montgomery.



Social work is the professional application of the knowledge of human behavior/social environment and the use of interventive skills in working with individuals, families, groups, and communities regarding problems of living in modern society.

Social work involves service to all peoples: from young to old, individuals, families, groups, neighborhoods, and especially the disadvantaged in our society, such as people of color, women, the physically and mentally handicapped, and the poor. A variety of practice settings are utilized to reach these people, such as hospitals, child care facilities, public and private social welfare departments, public schools, and industries.

The Social Work Department offers a Bachelor of Science degree in social work (Bachelor of Arts degree if language requirements are met). The social work program, which is accredited by the Council on Social Work Education, is designed to prepare students for beginning professional social work practice at the baccalaureate level and for entry into graduate school in social work.

Entry into Taylor's social work education program begins in the sophomore year when students

1. satisfactorily complete the pre-entry courses SWK 200, 231, 251 and 252.;
2. complete a minimum of 30 hours of volunteer experience, preferably at a social welfare agency; and
3. receive the approval of the Social Work Education Committee.

Students in the social work major are expected to complete the following:

1. all general education requirements;
2. 33 hours in required supportive courses of sociology, psychology, political science, and economics (some will also meet general education requirements); and
3. 50 hours of required social work courses.

Students considering work in areas that are bilingual are strongly encouraged to take appropriate language courses.

The social work courses include a junior field experience (which is a month long practicum at a social welfare agency) and a professional practicum the final semester of the senior year.

SWK 200 **3 hours**
Explorations in Social Work

An initial exposure to social work as a profession. Field trips, agency evaluations, and guest speakers introduce the student to opportunities in social work. *Open to all majors.*

SWK 231 **3 hours**
Social Welfare: Historical Perspectives and Development

Provides students with a basic understanding of the interrelationships between social needs/problems and social welfare policy, programs, and service. Students will also look at the historical development of Social Work as well as consider the major programs in which social workers are likely to be involved.

SWK 251 **3 hours**
Human Behavior and the Social Environment I

SWK 252 **3 hours**
Human Behavior and the Social Environment II

This is a two (2) part course focusing on the Life Span approach to Human Behavior and Development. Human Behavior and Social Environment I (HBSE I) will concentrate on birth through young adulthood. HBSE II will cover middle adulthood through death. These courses will deal with the interrelatedness of the biological, psychological, social, cultural, and environmental factors in human behavior and their relevance and application to social work practice. Several theoretical approaches to explain human behavior and personality development are offered to the students in a variety of learning experiences.

SWK 260 **3 hours**
Introduction to Social Research Principles and Methods

A study of the research methods focusing on various explanations of principles and processes inherent in the social system. Emphasis is upon the main social research methods used by modern scholars in social work and sociology. *Prerequisites: COS 100 and PHY 230 or NAS 240. Offered Fall semester only.*

SWK 351 **3 hours**
Social Work Process and Practice I

A course which introduces the student to the generic base of social work, and a framework for generalist practice. The second phase of the course focuses on the basics of the helping relationship, communication skills and beginning counseling techniques. *Prerequisites: CAS 120, SWK 200, 251 and 252, SOC 100, and PSY 100. Offered Fall semester only.*

SWK 352 **1 hour**
Group Dynamics I

A course which incorporates basic knowledge of various kinds of group dynamics and communication in an experiential framework of learning to be a group member and leader. *Prerequisites: CAS 120, SWK 200, 251 & 252, SOC 100, PSY 100. Offered Fall semester only.*

SWK 353 **1 hour**
Group Dynamics II

A course which includes knowledge of various types of groups with leadership skills and group interaction of the different kinds in an experiential framework of learning leadership skills. *Prerequisites: CAS 120, SOC 100, PSY 100, SWK 200, 251, 252, 351, and 352. Offered Spring semester only.*

SWK 354 **4 hours**
Social Work Process and Practice II

A course which concentrates on integration of theories, principles, skills, and processes of various modalities of intervention. The generalist model which holds that the type of problem or situation determines mode of intervention will build understanding of work with individuals, families and groups. *Prerequisites: SWK 351, 352 and 393. Offered Spring semester only.*

SWK 360 **1–4 hours**
Independent Study

Permission of Head of Social Work Department required.

SWK 362 **3 hours**
Social Policy

Emphasis on how social workers function, directly or indirectly, under the mandates of social policies on a national, state, or local level. This course helps the student understand and critically analyze how policies are changed, assessed, and implemented at the agency level—both public and private. *Prerequisite: POS 331 and SWK 231. Offered Spring semester only.*

SWK 370 **1–4 hours**
Selected Topics

Social work with children, the aged, women, minority groups and health care are among possible course topics. *Open to all majors.*

SWK 393 **4 hours**
Junior Practicum (Field lab)

(Grades are P/F) During the Interterm of the junior year, students spend time in a social work setting learning how the agency functions, how professional social work practice is implemented, and how the professional interacts within the agency. This field lab provides the student the opportunity for observation and practice. *Prerequisites: SWK 200, 231, 251, 252, 351, 352, and permission of the Head of Social Work Department.*

SWK 451 **2 hours**
Social Work Process and Practice III

Social work problem-solving method is viewed through the planned change process with social and professional communities, task groups, and organizations. This course builds on the integration of policy, practice, and human behavior/social environment courses. *Prerequisite: SWK 354. Offered Fall semester only.*

SWK 452 **2 hours**
Advanced Social Work Practice

A course which concentrates on further development of intervention skills, knowledge, and values with client systems and prepares the student for writing social histories in case records and correspondence in behalf of client systems. *Prerequisite: SWK 354. Offered Fall semester only.*

SWK 480 **1–4 hours**
Seminar

SWK 490 **1–2 hours**
Honors

SWK 492 **12 hours**
Senior Practicum

Professional semester of supervised internship in a social work setting. Spring term of senior year. *Prerequisite: Completion of all required courses in the social work major.*

IAS 493 **4 hours**
Senior Seminar

SOCIOLOGY

Head, Professor Yutzy

Sociology concentrates attention upon the basic processes of social interaction which result in human personality and society. The behavior of humans in groups and organized systems such as

the family, work and government are studied. Sociology also looks at the way human behavior is regulated and standardized around major societal values as compared with Biblical standards and values.

The Bachelor of Arts major in sociology consists of 33 term hours including SOC 100, 260, 361 and IAS 493. SOC 393 is strongly recommended. Social work courses may not be counted toward the major in sociology. The sociology major is deliberately kept lean to allow for double or parallel majors in career related fields. These combinations are typical: Sociology/Communications, Sociology/Computer Science, Sociology/Environmental Science, Sociology/Systems, Sociology/Religion.

A minor in sociology consists of 18 hours. SOC 100 or 210, and SOC 361, are required plus 12 hours of electives.

The goal is to prepare graduates to participate as effective Christians in a variety of social settings ranging from the family and peer groups, to churches, to large multinational corporations.

SOC 100 **3 hours**
Introduction to Sociology

A study of the principles and concepts of sociology in the context of present day social systems. Attention is given to major contemporary analyses of social events, processes, and institutions.

SOC 210 **3 hours**
Contemporary Social Problems

An introduction to the study of social problems from several perspectives. Problems in areas such as social engineering, social control, and personal and family relationships are examined in light of basic principles of sociology.

SOC 222 **3 hours**
Community and Urban Affairs

Consideration of problems relating to community structure, development and process beginning with a historical overview of the development of cities. Special emphasis is placed upon the interrelationships of various groupings within communities, particularly within the urban scene. A field trip to a major urban center provides "hands on" learning.

SOC 260 **4 hours**
Introduction to Social Research Principles and Methods

A study of the research methods focusing on various explanations of principles and processes inherent in the social system. Emphasis is upon the main social research methods used by modern scholars in social work and sociology. Includes statistics for social work and sociology.

SOC 312 **3 hours**
Ethnic and Minority Issues

A study of the impact of ethnic and minority groups on the American culture with some comparison of the problems of ethnic and minority groups in cultures around the world.

SOC 320 **3 hours**
Human Relations in Organizations

The study of human relationships in organizations as they pertain to management theories, processes, and organizational systems and structures. Vertical, lateral, and diagonal relationships and planning techniques and strategies, as well as techniques of systems intervention and problem solving are studied.

SOC 321 **3 hours**
Social Psychology

See PSY 321

SOC 342 **3 hours**
Crime and Juvenile Delinquency

An examination of schools of criminology, theories of crime and punishment, causes and costs of juvenile and adult delinquency, police detention, penal institutions, and modern treatment of juvenile and adult delinquents. *Offered Fall semester of odd years only.*

SOC 351 **3 hours**
Political Sociology

An examination of the sociological and social-psychological basis of politics and political behavior. Particular emphasis is given to politics as an expression of class conflict, the relationship of social power to political power, and the role of social norms as limitations on the political power of the state. *Offered 1988-89.*

SOC 352 **3 hours**
Cultural Anthropology

An introduction to some present-day preliterate and literate cultures of the world. Social and cultural origins, primitive social control, the

background of modern folkways, mores and community, and institutional life are studied. Designed for sociology majors and as an orientation course for those interested in missions.

SOC 360 **1–4 hours**
Independent Study

SOC 361 **3 hours**
History of Social Thought

Main emphasis placed upon the contributions of sociologists since the time of Comte. A study of the writings and concepts of leading sociologists both in Europe and America. *Offered Fall semester of odd years only.*

SOC 370 **1–4 hours**
Selected Topics

SOC 381 **3 hours**
Human Sexuality and Family Systems

A study of the present state of family systems in America with an examination of the broader topic of human sexuality as a dynamic pattern of relationships both within and outside of the family. Some multicultural and transcultural variations and trends, internal and external sources of strain, and change over the family life cycle are studied. Biblical principles of sexuality are examined.

SOC 393 **1–4 hours**
Practicum

SOC 490 **1–2 hours**
Honors

IAS 493 **4 hours**
Senior Seminar

SYSTEMS

See *Information Sciences*

THEATRE

See *Communication Arts*

INTER-AREA STUDIES

Courses in this section are grouped in two ways. First, those courses which are non-departmental are identified. In academic schedules and on transcripts they will be identified with the prefix IAS.

Following those non-departmental courses are *inter-area* courses which are related to more than a single department in an academic area. Such courses, and in some cases majors, frequently deal with subject matter which is not purely assignable to any given department. For the purpose of establishing an identity for these courses, the departments of the University have been grouped along traditional lines, and the inter-area courses related to these areas are listed under these headings in this section of the catalog.

The Humanities Area includes the departments of Ancient Language, Art, English, Modern Languages, Music, Religion and Philosophy, and Communication Arts. (HUM)

The Natural Science Area includes the departments of Biology, Chemistry, Information Sciences, Mathematics, and Physics. (NAS)

The Social Science Area includes the departments of Business and Economics, Geography, History, Political Science, Psychology, Sociology, and Social Work. (SOS)

A student majoring in any department within the humanities and social science areas is encouraged to consider a special concentration in such groupings as American Studies, Ancient Studies, European Studies, or Fine Arts in conjunction with the major. Any interested student should consult with the head of the major department.

Non-Departmental Courses (IAS)

IAS 101 **1 hour**
New Student Orientation

An introduction to the Christian higher education philosophy of Taylor by word and practice. This course includes small groups discussing study skills, personal growth and development, and academic advising. Working through practical problems of adjustment to the Taylor community in the areas of behavioral standards, time management, male-female relationships, career planning, and spiritual growth are included. *Required of all new students and transfer students with 11 or fewer hours.*

IAS 110 **3 hours**
Freshman Seminar

An introduction to liberal arts, integration of faith and learning, and basic psychological information about human nature. In addition to large group lectures, the course includes small group discussion sessions led by faculty from a variety of academic areas. The discussion sessions further develop the themes for the course. The primary thrust is to use the central theme of human nature to introduce students to basic areas of understanding which undergird the intellectual growth process at Taylor. *Required of all new students and transfer students with 30 or fewer hours.*

IAS 180 **1 hour**
Applied Learning Techniques

See IAS 280.

IAS 199
Continuing Student Status

Used for students maintaining registration while attending another college.

IAS 200 **1 hour**
Library Research

Explores different avenues to obtaining information. Emphasis is on information pertinent to student research papers and student majors. Media forms are evaluated including print, telecommunications, computer databases, videotape, videodisc, micro-forms, word-of-mouth, and broadcast. A field trip to a major university library is required. The goal of the course is to acquaint students with information resources and with methods of researching those sources.

IAS 220 **1–4 hours**
Honors

Enrollment in this class is restricted to students in the honors program.

IAS 252 **1 hour**
Developmental Processes in Leadership

Designed to provide theoretical foundations and experimental opportunities structured toward personal growth and organizational effectiveness. This course wiill educate the student in leadership theories, organizational skills, group dynamics, and problem solving. Strongly recommended for all students interested in on-campus leadership positions.

IAS 280 **1 hour**
Advanced Applied Learning Techniques

Emphasizes techniques for the improvement of study skills, listening and note-taking, reading and comprehension, writing and mathematics skills. The course meets three hours per week for seven weeks. *Pass-fail basis only. May be repeated one time.*

IAS 290 **1 hour**
Speed Reading

Emphasis on speed reading techniques and effective comprehension. Meets daily for seven weeks. *Prerequisite: 13 grade level reading. Pass-fail basis only.*

IAS 300 **2 hours**
Career Planning

A practical course to aid in the development of lifelong career competencies, Career Planning provides students with the opportunity to explore their value system, understand principles of wise decision making

and research a variety of work experiences. Job seeking skills such as resume writing, preparation of credentials, approaches to the job market and interviewing will be integrated into the course. Items of special consideration will include problems faced by minorities, women, and the handicapped.

IAS 310 **1 hour**
Advanced Test Taking

Verbal and math skills for testing. *Pass-fail basis only.*

IAS 320 **3 hours**
Cross Cultural Outreach

An overview of the cross-cultural mission of the church is presented with training in personal evangelism. The class prepares participants for a month of cross-cultural ministry during January and meets the General Education cross-cultural requirement. Additional practicums may be selected in philosophy/religion, Christian education, social work, elementary education, and church music during the field experience.

IAS 352 **1 hour**
Student Development Seminar

Designed to provide instruction and study in topics relevant to specific student leadership positions on campus. *Prerequisite: IAS 252 and/or permission of instructors.*

IAS 360 **1–4 hours**
Honors—Independent Study

Enrollment in this experience is restricted to students in the honors program.

IAS 492 **1–4 hours**
Integrative Seminar

An interdepartmental, interdisciplinary seminar of an integrative nature utilizing readings and other media to communicate ideas. *Prerequisite: Permission of the instructors.*

IAS 493 **4 hours**
Senior Seminar

Integrates the central purposes of general education with the major area of study. Seniors will meet together initially to study broad interdisciplinary issues relating to the development of a Christian world view and Christian stewardship (1 hour). Students then will meet in departments to integrate Christian philosophical concerns with departmental concerns (3 hours).

IAS 499 **1 hour**
Special Study

Upon recommendation of the major department head, a student may petition for permission to serve as an instructional assistant in his major department. It is to be understood that the petition should be accompanied by a description of the student's duties and that the *approved* petition is to be presented to the Records Office at the time of registration. *Prerequisites: Junior standing; overall GPA of at least 2.6 and major GPA of at least 3.0; and permission of the Associate Vice President for Academic Affairs.*

Area of Humanities (HUM)

HUM 230 **4 hours**
Art as Experience

Three one-hour lecture sessions are scheduled per week, with the equivalent of one additional hour per week required for attendance at arts events. Written critiques of selected events are part of the course curriculum. Lecture sessions focus upon Twentieth Century concepts and art forms, with the goal of developing students' perceptual skills. A major focus of this course is *experiencing* art.

HUM 330 **4 hours**
Arts and Ideas

In four hours of lecture/discussion per week the evolution of western art through selected historical periods and places is traced. The emphasis is heavily historical, stressing learning *about* the artistic heritage and its context rather than *experiencing* art. The course is open to students of all majors, but is particularly appropriate for literature, fine arts, history and philosophy majors.

HUM 250 **1 hour**
Participation in the Arts

ART, CAT or MUS participation as partial fulfillment of the Humanities (Fine Arts) requirement. Non-music majors may also take an ensemble or private lessons to fulfill this requirement. *Credit only.*

Area of Latin American Studies

LAS 300 **2–6 hours**
Latin American Studies—Spanish Language Study

A language study experience for students participating in the Latin American Studies Program in Costa Rica. Course content varies depending upon the student's level of proficiency in Spanish. *Credit is variable depending upon the duration of residence.*

LAS 310 **2–6 hours**
Latin American Studies Seminar in Costa Rica

A series of seminars for students participating in the Latin American Studies Program in Costa Rica. Credit is variable depending on the duration of residence. *Applicability to a major must be determined in advance by a petition submitted to the department.*

Area of Natural Science (NAS)

Major in Natural Science

This area major is designed for students participating in three-year pre-professional programs. Such programs include pre-engineering, pre-medicine, pre-dentistry, and pre-medical technology. All Taylor graduation requirements are applicable, excepting PHI 413, IAS 493, the minimum of 42 hours of upper-division credit and the senior comprehensive examination. Normally, students will complete all applicable requirements, including a minimum of 96 hours, in the first three pre-professional years. A minimum of 40 hours must be taken in courses offered in the Natural Science Area. These courses must be selected in accordance with the unique requirements of each pre-professional program. Schedules of specific course requirements appear in the catalog under the heading of the *Pre-Professional Studies.*

Upon the satisfactory completion of one year of professional requirements at an approved accredited school, the student will be granted the baccalaureate degree by Taylor University.

NAS 120 **4 hours**
Experiences in Physical Science

See PHY 120

NAS 240 **4 hours**
Introductory Statistics

A study of basic statistical methods for describing data; counting outcomes and probability; probability distributions; sampling distributions; confidence intervals; tests of hypotheses; linear regression; and correlation.

NAS 480 **1 hour**
Natural Science Seminar

The integration of topics from contemporary science with an emphasis on recent research reports of inter-disciplinary interest. Guest lecturers and faculty and student reports serve as the method of instruction.

Area of Social Sciences (SOS)

SOS 300 **2–8 hours**
American Studies Seminar in Washington

A series of short seminars for students participating in the American Studies Program in Washington, D.C. Credit is variable depending on the duration of residence. *Applicability to a major must be determined in advance by a petition submitted to the department.*

SOS 310 **2–8 hours**
American Studies Internship in Washington

An internship experience for students participating in the American Studies Program in Washington, D.C. Credit is variable depending on the duration of residence. *Applicability to a major must be determined in advance by a petition submitted to the department.*

SOS 352 **3 hours**
Student Development Seminar

Designed to provide instruction and study in the area of interpersonal relationships and communication within the context of residence hall living. Individual study and group interaction assist the student in the personal development and skills-training necessary for helping others through relationships. *This course is required of all students who have been selected to be personnel assistants.*

PRE-PROFESSIONAL STUDIES

Liberal arts education emphasizes the learning which is desirable for all students who would grow into mature persons and citizens of a democratic society. Also, this is basic preparation for the various professions and vocations. Taylor University also offers pre-professional programs in several areas; some of them are affiliation programs with other universities.

Pre-Engineering Program

A student desiring both an engineering career and a Taylor degree can complete the designated on-campus requirements for the Taylor degree in three years. Engineering requirements may be completed in two-and-one-half years (or less) after transferring to any approved accredited engineering school. (Taylor participates in "3–2 affiliation programs" with Purdue University, Lafayette, IN, and with Washington University, St. Louis, MO.) On satisfactory completion of the first year of study at the engineering school, the student who successfully follows the schedule of courses suggested below will be granted a bachelor of science degree with a major in Natural Science/Systems by Taylor University. (Alternatively, a pre-engineering student may elect to earn the Bachelor of Arts degree with a Natural Science major by substituting a foreign language requirement for the core of courses in systems analysis shown below.)

Freshman Year

IAS	*101*	*1*
IAS	*110*	*3*
ENG	*110*	*4*
MAT	*151, 230*	*8*
CHE	*201, 202*	*10*
BIB	*110*	*3*
HPR	*100*	*1*
COS	*220*	*4*

Interterm

SYS	*200*	*4*

Junior Year

SYS	*401, 402*	*8*
CROSS CULTURAL ELECTIVE		*3-4*
PHY	*341, 342*	*6*
COS	*200*	*3*
HUM	*230*	*4*
ART, CAT or MUS participation		*1*
SOC	*320*	*3*
BIB	*313*	*3*

Interterm

HIS	*XXX*	*4*

Summer

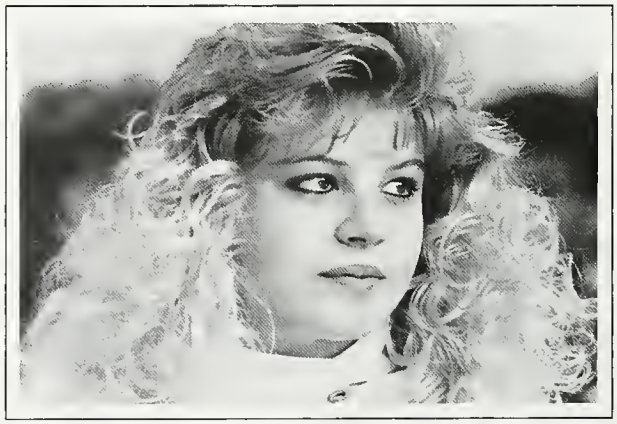
SYS	*393*	*4*

Sophomore Year

MAT	*240, 352, 382, 431*	*15*
PHY	*211, 212*	*10*
CAS	*201*	*3*
HPR	*200*	*1*
SYS	*392*	*1*
COS	*250*	*4*

Interterm

BIB	*210*	*3*
HPR	*200*	*1*



Pre-Law Program

The best preparation for graduate training in the field of law is a regular four-year college course leading to the bachelor of arts degree. The major, chosen in consultation with the pre-law advisor,should be one which enhances reading, writing and analytical skills. As a supplement to the major, students may opt for a pre-law minor. The 17-hour pre-law minor consists of the following courses:

BUS 311 **3 hours**
Business Law

CAS 331 **3 hours**
Communication for Decision-making

POS 372 **5 hours**
American Constitutional Development

PRL 441 **3 hours**
Legal Studies

PRL 442 **3 hours**
Legal Thought

All of the courses must be taken to complete the minor. Students may, of course, take the individual courses even if they do not intend to have a pre-law minor. Normally, the courses will be taken during the junior or senior years. If, however, the student plans to participate in an off-campus program such as the American Studies Program, it may be necessary to take one or two of the courses during the sophomore year. Students should consult with their academic advisor or the pre-law advisor about the best time to take the pre-law course.

PRL 441 **3 hours**
Legal Studies

Designed for those who expect to go on to law school; students will gain experience at the writing, reading and critical thought levels expected of all law students. The course is taught by an attorney.

PRL 442 **3 hours**
Legal Thought

An overview of ancient, modern and contemporary theories of the law. The course will explore the nature of law and probe its relationship to politics, morality and ethics. (Consent of instructor is required of all students who have not taken BUS 311 or POS 372.)

Pre-Master of Business Administration Program

An advising package of business courses is available to students majoring in any of the liberal arts. Through this program, a student can complete a four-year degree at Taylor (a BA in English, History, Psychology, etc.) and have the necessary prerequisite business, accounting and economics courses to earn an MBA at Ball State University in one additional year. Early decision is necessary to complete the package. See the head of the business department for information.

Pre-Medical Program

Students interested in the Pre-Medical curriculum should ask their advisor for the catalog on Medical School Admissions requirements sometime during their sophomore year. It is important to meet the specific entrance requirements of the medical school(s) chosen. Maintaining a B+ average and scoring well on the MCAT test (usually taken in the spring of the junior year) are common prerequisites for acceptance to a medical school. Help is available toward preparing for the MCAT examinations.

Medical College Admissions Committees today are not specific about the choice of undergraduate major (most prefer a major in the arts or sciences) as long as the entrance requirements for their particular medical school have been met. A suggested course schedule follows for the two most common majors chosen by Pre-Medical students at Taylor. The Bachelor of Arts degree is granted upon satisfactory completion of either tract.

BIOLOGY PRE-MED

Biology Major Freshman Year

BIO	*101, 103, 104*	*9*
ENG	*110*	*4*
REL	*110*	*3*
FOREIGN LANGUAGE 101, 102		*8*
MAT	*130 or 151*	*4*
HPR	*100*	*1*
IAS	*101*	*1*
IAS	*110*	*3*

Biology Major Sophomore Year

BIO	*203, 204*	*6*
BIO	*352 (WR) or 332*	*4*
CHE	*201, 202*	*10*
REL	*213*	*4*
FOREIGN LANGUAGE 201, 202		*6*
HPR	*200*	*1*
HISTORY/SOCIOLOGY		*6-8*
CAS	*110*	*2*

Biology Major Junior Year

BIO	*312(WR), 362(WR),331, 332 or 352(WR)*	*8*
CHE	*311, 312(SP)*	*10*
PHY	*211, 212*	*10*
HUM	*250 or HPR 200*	*1*
NAS	*480*	*1*
INTERTERM OR SUMMER PRACTICUM		*4*
PRACTICUM		*4*

Biology Major Senior Year

BIO	*312(WR), 362(WR), 331 or 411*	*8*
IAS	*240*	*4*
PHI	*413*	*3*
REL	*313*	*3*
HUM	*250 or HPR 200*	*1*
CROSS CULTURAL		*4*
COS	*200 or 250*	*4*
ENGLISH LITERATURE		*4*
SENIOR SEMINAR (SP)		*4*

CHEMISTRY PRE-MED

Chemistry Major Freshman Year

CHE	*201, 202*	*10*
MAT	*151, 230*	*8*
REL	*110*	*3*
ENG	*110*	*4*
IAS	*101*	*1*
IAS	*110*	*3*
HPR	*100*	*1*
HISTORY/SOCIAL SCIENCE		*3-5*

Chemistry Major Sophomore Year

CHE	*311, 312*	*10*
BIO	*101, 203*	*6*
PHY	*211, 212*	*10*
REL	*210*	*3*
CAT	*110*	*2*
HPR	*200*	*1*
LITERATURE		*3-4*

Chemistry Major Junior Year

CHE	*301, 302*	*8*
BIO (two courses)		*6-8*
LANGUAGE 101, 102		*8*
HUM	*230*	*4*
REL	*313*	*3*
ARTS PARTICIPATION		*1*
LANGUAGE 201, 202		*6*
HISTORY/SOCIAL SCIENCE		*3-5*

Chemistry Major Senior Year

CHE	*431 (and 431L)*	*3-4*
CHE	*493 (Sr. Seminar)*	*4*
CHE	*411*	*4*
PHI	*413*	*3*
HPR	*200*	*1*
BIO (one course)		*3-4*
COS	*220*	*4*
NAS	*490*	*1*

Pre-Medical Technology Program

The Medical Technologist serves as a vital part of the hospital medical team, performing the laboratory tests that lead to successful diagnosis of illness. Taylor University maintains affiliations with four regional hospitals for students wishing to pursue a Bachelor of Science degree in Medical Technology:

Ball Memorial Hospital, Muncie
The Lutheran Hospital, Ft. Wayne
Methodist Hospital of Indiana, Indianapolis
Parkview Memorial Hospital, Ft. Wayne

The National Accrediting Agency for Clinical Laboratory Sciences requires three years of college work as minimum pre-professional preparation. Following a student's completion of this program at Taylor University (a minimum of 96 credit hours) and after satisfactory performance in the medical technology program at an approved hospital, a Bachelor of Science degree will be granted. The student is then eligible to take a national certifying examination. Upon successfully passing the certification examination, he/she will be certified as a registered medical technologist or its equivalent.

Electives should be selected in the natural sciences to enhance acceptance into a medical technology program. A typical program follows.

Freshman Year

IAS	*101*	*1*
IAS	*110*	*3*
ENG	*110*	*4*
CHE	*201, 202*	*10*
COS	*200 OR 220*	*3-4*
REL	*110*	*3*
HPR	*100, 200*	*2*
MAT		*3-4*
CAS	*110*	*2*

Sophomore Year

LITERATURE		*4*
REL	*210*	*3*
PHYSICS (Optional)		*4-8*
BIO	*101*	*3*
CHE		*8-10*
SOC		*3*
HIS		*4*
HPR	*200*	*1*

Junior Year

REL	*313*	*6*
BIO	*371*	*4*
CHE		*8-10*
HUM	*230*	*5*
BIO	*241, 242*	*8*

Pre-Nursing Program

Taylor University has agreements with the nursing schools of Bethel College, St. Paul, Minnesota and of Goshen College, Goshen, Indiana, whereby pre-nursing students attend Taylor for the first two years of the four year program and then complete their nursing training and four year degree at one of these schools. The bachelor's degree is granted from the nursing school's college. Application to either nursing program is made while at Taylor, and acceptance depends on fulfilling the necessary entrance requirements for the respective nursing program. After successfully completing the prescribed coursework at Taylor as set forth in the agreements, the students will be able to smoothly fit into the nursing sequence at these colleges. Other admittance requirements are found in the literature of each of the nursing programs. Applicants who complete the prescribed coursework at Taylor in good standing and who work with the pre-nursing advisor should be at no disadvantage in gaining admittance to either nursing program.

Pre-nursing students who wish to attend Taylor and then transfer to nursing schools other than these

two are invited to do so but must arrive at Taylor with the catalogs and other information from the nursing school(s) they plan to apply to in order to plan their academic career at Taylor. Since nursing programs vary significantly from school to school, this is essential. In some cases, it is not advisable to attend a college other than the one in which the nursing school is located for the four year program.

TAYLOR UNIVERSITY/BETHEL COLLEGE
B.S. IN NURSING PROGRAM

Year One

Fall Term

IAS	*101*	*1*
IAS	*110*	*3*
BIO	*101*	*3*
CHE	*100*	*4*
REL	*110*	*3*
		14

Interterm

REL	*210*	*3*

Spring Term

ENG	*110*	*4*
CHE	*170*	*4*
PSY	*200*	*3*
HPR	*100*	*1*
CAS	*110 (or elective)*	*2*
		14

Year Two

Fall Term

HUM	*230*	*4*
BIO	*241*	*4*
SOC	*352*	*3*
PSY	*250*	*3*
HPR	*200*	*1*
		15

Interterm

Elective or Taylor Gen. Ed. Could be taken at Bethel)		*3*

Spring Term

BIO	*242*	*4*
BIO	*371*	*4*
PHI	*262 or PHI 371*	*3*
Elective		*3*
		14

TAYLOR UNIVERSITY/GOSHEN COLLEGE
B.S. IN NURSING PROGRAM

Year One		
Fall Term		
IAS	*101*	*1*
IAS	*110*	*3*
ENG	*110*	*4*
or		
BIB	*110*	*3*
CHE	*100*	*4*
HPR	*100*	*1*
CAS	*110*	*2*
		14-15
Interterm		
SOC	*100*	*3*
Spring Term		
ENG	*110*	*4*
or		
BIB	*110*	*3*
CHE	*170*	*4*
BIO	*170*	*3*
HUM	*230*	*4*
		14-15

Year Two		
Fall Term		
BIO	*241*	*4*
PSY	*250*	*3*
SOC	*381*	*3*
FRE/SPA		*4*
or		
Electives		
		14-15
Interterm		
HIS	*170*	*1-4*
Spring Term		
BIO	*242*	*4*
BIO	*371*	*4*
FRE/SPA		*4-7*
or		
Electives		
		12-15

Pre-Theological Program

The *Statement on Pre-Seminary Studies* from the Association of Theological Schools gives the following important counsel: "In every case, the student contemplating theological study should correspond at the very earliest opportunity with the school or schools to which he intends to apply and with the authorities of his church in order to learn what will best prepare him for the specific program he expects to enter."

The following normative pattern of pre-seminary education is offered in the *Statement:* English language and literature; history; philosophy, particularly its history and its methods; natural science; social science; the fine arts, biblical and modern languages; religion, both the Judaeo-Christian and the Near and Far Eastern traditions. A seminary may modify this normative pattern, if it chooses.

The really significant principle underlying this pattern is not that of earning so many hours and meeting minimum requirements, but that of making the most of the opportunities for acquiring knowledge in the fields listed.

The *Statement* advises students to consider that "many religion departments now represent the best possibility an undergraduate may have on his campus for the integrating values of a liberal education." In addition to this, there is the realization that "strong religion departments may prepare students in such depth that they are ready to bypass the introductory courses of the traditional seminary curriculum."

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The Taylor University Parents' Association (TUPA) was started in 1979 by a group of interested parents and administrators. Its purpose is to foster a spirit of Christian community for parents of Taylor students; to unite us into a vital force of influence, support, and action through effective communication among parents and the University family; and to have a strong voice in support of the continuing spiritual welfare of the University.

The Association is managed through a Cabinet of thirty-six (eighteen family units) members, each elected for a three-year term. Among the more visible activities of the Association is the production of Parents' Weekend held annually in the fall.

Current members of the TUPA Cabinet are:

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FACULTY

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***President and Professor* (1985);**
Taylor University, BA, LHD; Asbury Theological Seminary, DD; Huntington College, HHD; Barrington College, DD; John Brown University, LHD

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William L. Bauer,
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Thomas G. Beers,
***Associate Vice President for University Advancement and Assistant Professor* (1969);**
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H. Michael Buck,
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Timothy J. Burkholder,
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University of Wisconsin-Milwaukee, BA, MA

Richard Dixon,
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George A. Glass,
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Taylor University, BSEd; Ball State University, MA

Robert V. Gortner,
***Associate Professor of Business* (1980);**
Drexel University, BS, MBA

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California State University, BA; Conservative Baptist Theological Seminary, MRE

Daniel G. Hammond,
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English—32 years of service

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English—18 years of service

William Ewbank,
Mathematics—23 years of service

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English and German—25 years of service

Carl E. Gongwer
Spanish—22 years of service

Dale E. Heath,
Ancient Language and History—27 years of service

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Library—35 years of service

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Physics—31 years of service

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Religion and President Emeritus—38 years of service

Carl W. Rice,
Education—16 years of service

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Harold Z. Snyder,
Biology—23 years of service

Hilda L. Steyer,
Music—30 years of service

Charles R. Wilson,
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Vida Wood,
Biology—16 years of service

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Nancy Beck,
Music

John Bell,
Business, Accounting & Economics

David Blakley,
Music

James R. Browne,
Business, Accounting & Economics

Bruce Campbell,
Art

Connie Christner,
Music

Penny Dimmick,
Music

Steve Dingledine,
Music

Fritz Dolak,
Music

Donna Doty,
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Donna Downs
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Frances Ewbank,
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Helen Kellogg,
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English

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Music

Betty Mealy,
English

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Cherly Oliver,
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Richard Pearson,
Medical Technology

Janice Pletcher
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Communication Arts

Shirley Replogle,
Medical Technology

Robert Rodman
Information Sciences

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Chicako Sloan,
Music

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Medical Technology

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Medical Technology

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Shawncey Webb,
Modern Languages

Fran Williams,
Medical Technology

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TAYLOR

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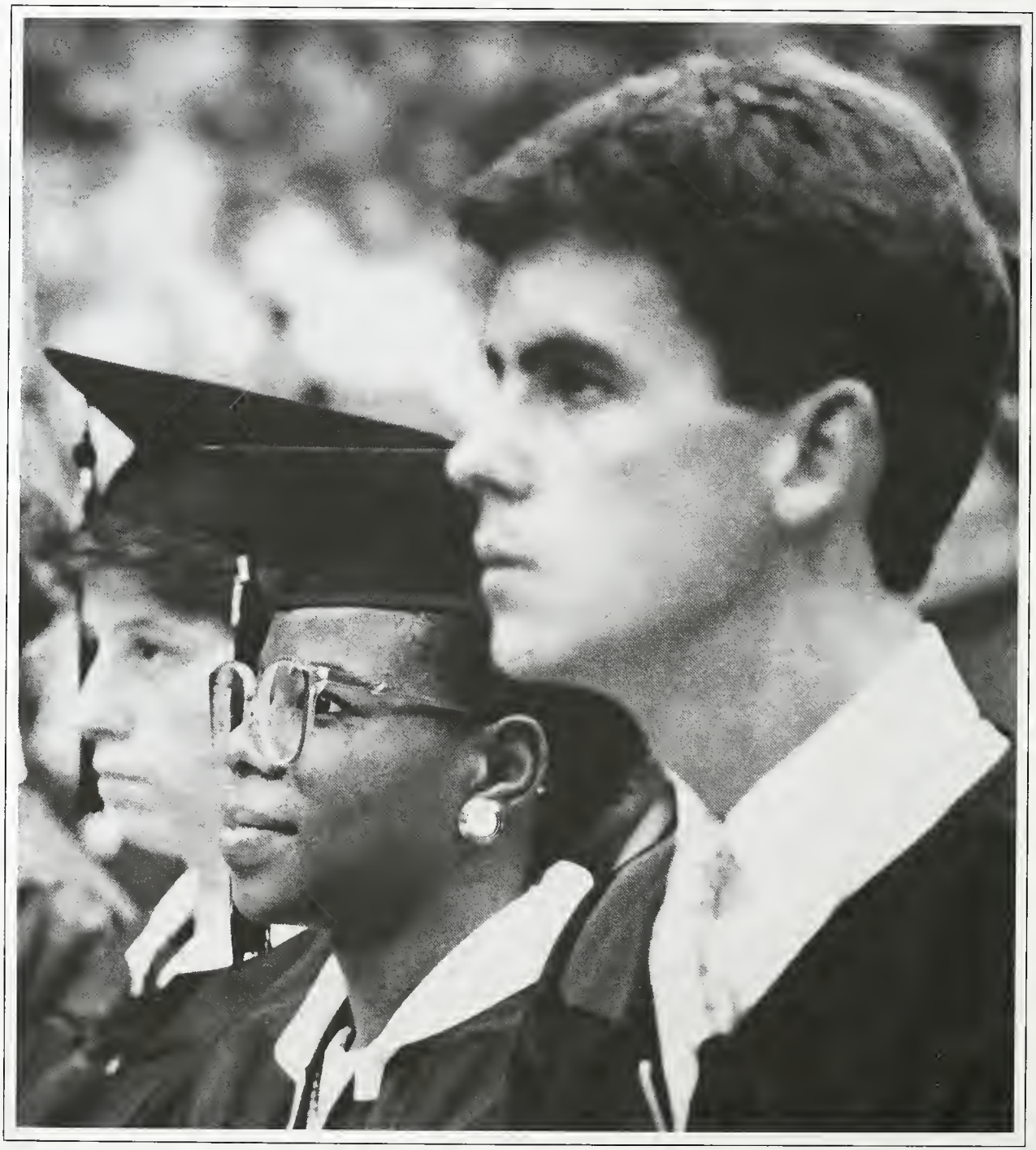

TAYLOR INFORMATION CARD

Name (please print) **Birthdate**

Street Address **Area/Home Phone**

City **State** **Zip**

High School **Graduation Year**

Average Grade: A A− B+ B B− C+ C C− College Transfer
(Please Circle) Yes No

Proposed major: _____

Circle Activity Interest:

Music	**Football**	**Baseball**	**Softball**	**Track**	**Golf**
Drama	**Basketball**	**Volleyball**	**Soccer**	**Cross Country**	**Tennis**

Materials Requested: _____

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Perhaps you have a friend that you would like to have receive Taylor information.

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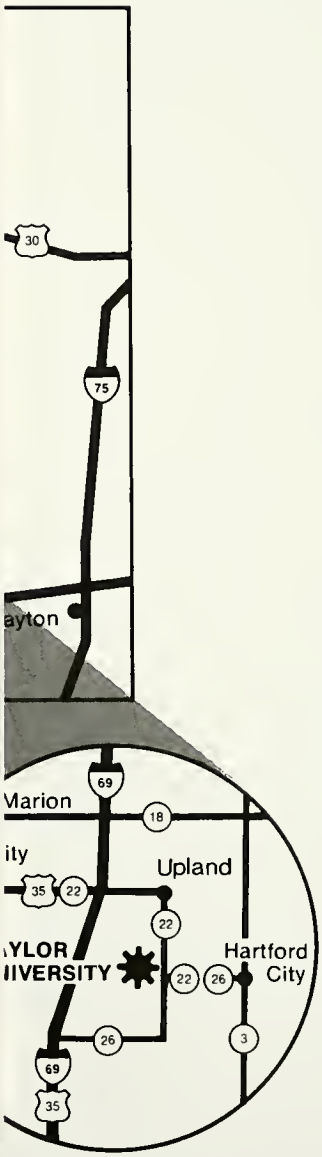
High School Graduation Year



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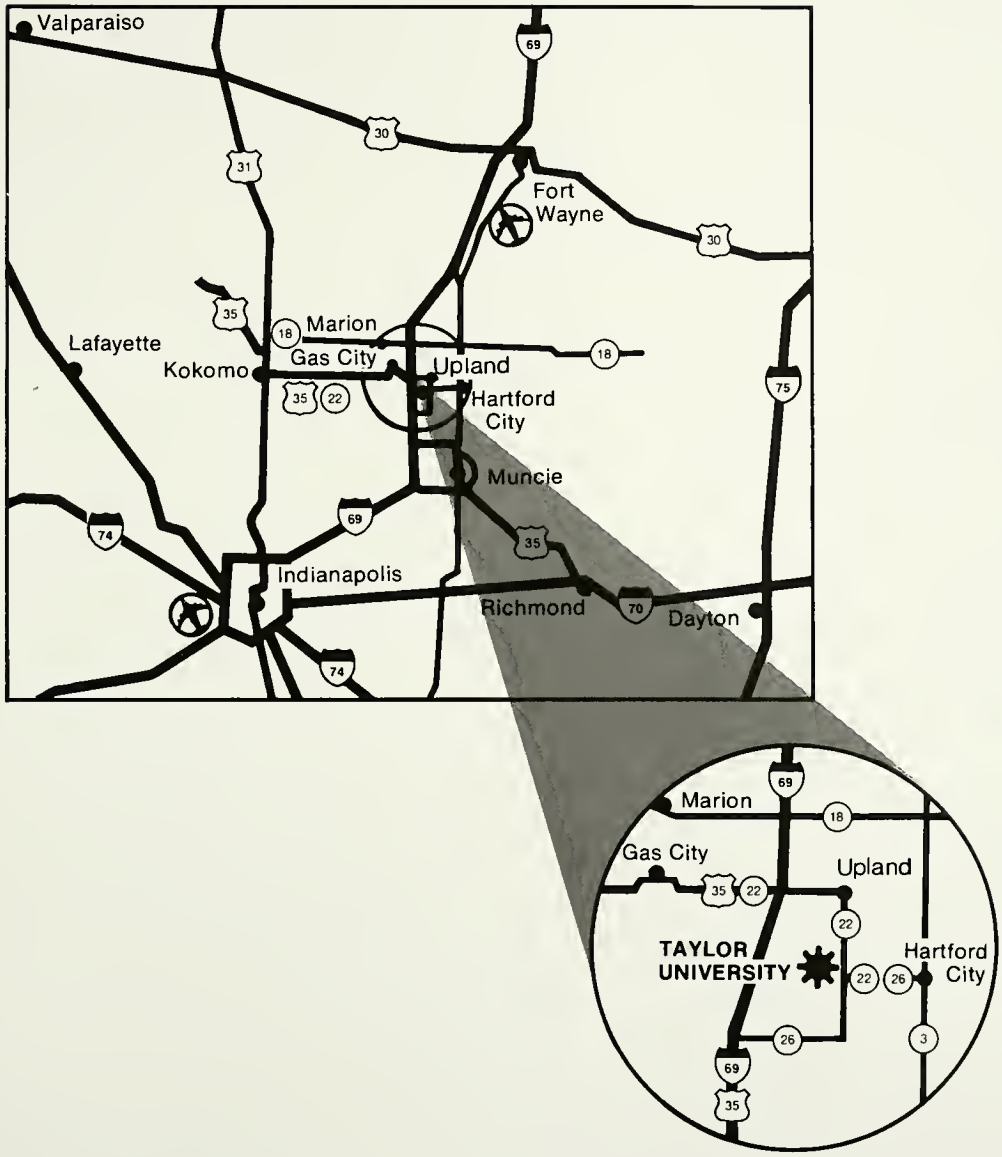
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